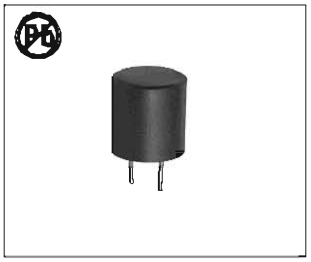
DIP SHIELDED POWER INDUCTORS

LGS1213B SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

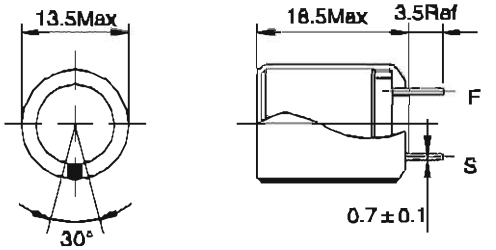
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1213B-100Y	10	30	10.0	8.0
LGS1213B-120Y	12	30	9.0	7.0
LGS1213B-150Y	15	30	8.0	6.0
LGS1213B-220Y	22	50	6.5	5.5
LGS1213B-330Y	33	100	5.0	5.0
LGS1213B-470Y	47	100	4.5	4.0

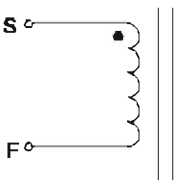
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:

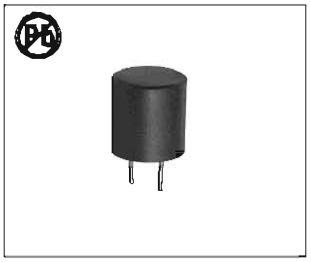


TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

DIP SHIELDED POWER INDUCTORS

LGS1218B SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

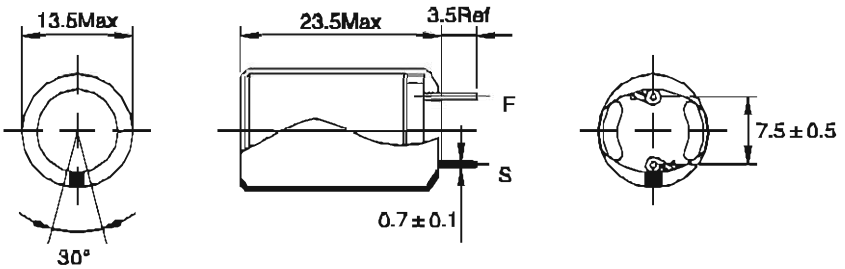
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1218B-100Y	10	30	10.0	10.0
LGS1218B-120Y	12	30	9.5	8.5
LGS1218B-150Y	15	30	8.5	8.0
LGS1218B-220Y	22	50	6.5	7.0
LGS1218B-330Y	33	50	5.0	6.0
LGS1218B-470Y	47	100	4.5	5.0

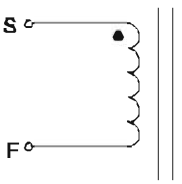
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A – SRF-HP4191A
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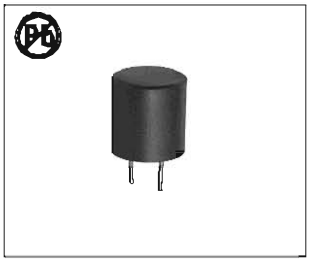
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

DIP SHIELDED POWER INDUCTORS

LGS1619 SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

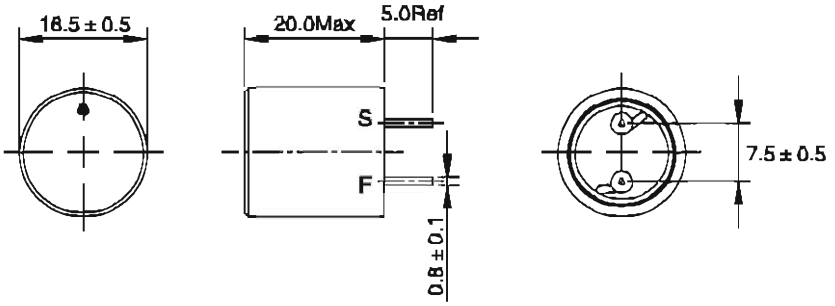
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1619-100Y	10	8.5	10	12
LGS1619-120Y	12	10	9	11
LGS1619-150Y	15	12	8	10.5
LGS1619-220Y	22	18	6.5	8.5
LGS1619-330Y	33	22	5	8
LGS1619-470Y	47	30	3.5	7

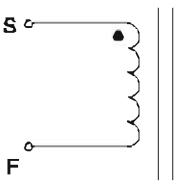
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

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  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
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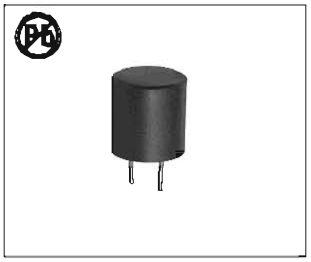
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

DIP SHIELDED POWER INDUCTORS

LGS1622 SERIES



FEATURES:

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- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

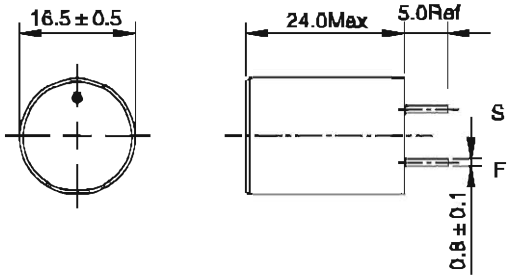
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1622-100Y	10	10	12	11
LGS1622-120Y	12	12	11	10.5
LGS1622-150Y	15	15	10	10
LGS1622-220Y	22	18	7	9.5
LGS1622-330Y	33	20	6	9
LGS1622-470Y	47	30	5	8

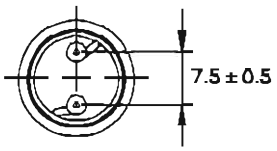
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

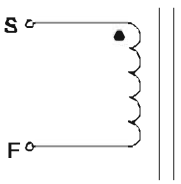
PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:





TECHNICAL INFORMATION:

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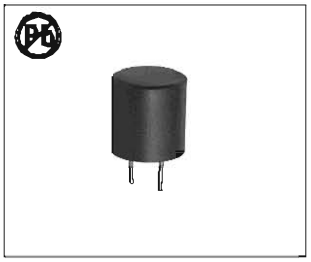
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

DIP SHIELDED POWER INDUCTORS

LGS1622B SERIES



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- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

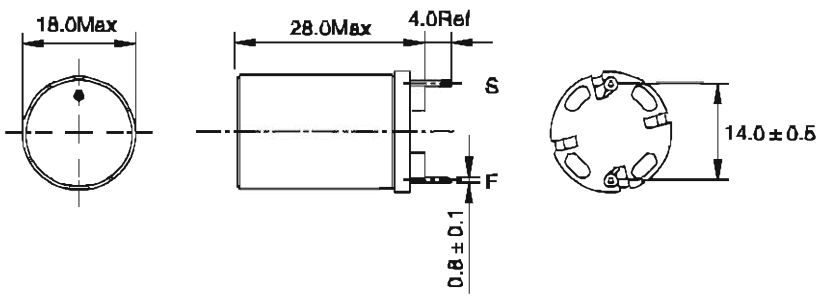
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1622B-100Y	10	20	15	9
LGS1622B-120Y	12	22	14	8.5
LGS1622B-150Y	15	25	12	8
LGS1622B-220Y	22	30	11	7.5
LGS1622B-330Y	33	40	10	7
LGS1622B-470Y	47	55	8	6

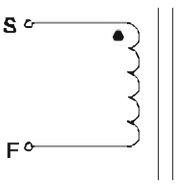
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q– HP4342A – SRF–HP4191A
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- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL–STD–202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

COMMON MODE CHOKE, COUPLED INDUCTOR

SDRH1514D SERIES

FEATURES:

- Low DCR, high rated current.
- Magnetic shielded structure
- Lead free product, RoHS compliant.
- Carrier tape packing, suitable for SMT process.

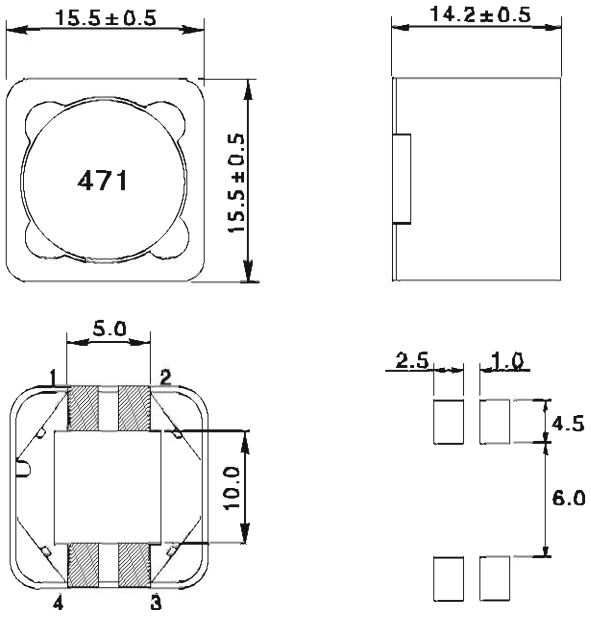
APPLICATIONS:

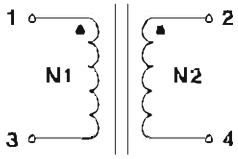
- Widely used in buck converter, laptop, displayer, network communication equipment, and etc.

ELECTRICAL CHARACTERISTICS@25℃

Part Number	Inductance (uH)	DCR (mΩ)Max	Leakage Inductance (uH)Typ.	Saturation current(A)			Temperature rise current(A)	
				10%drop	20%drop	30%drop	Both windings	One winding
SDRH1514D-220M	22.0±20%	36.0	0.45	9.1	9.8	10.2	3.8	5.4
SDRH1514D-270M	27.0±20%	39.0	0.45	9.0	9.6	10.2	3.3	4.7
SDRH1514D-330M	33.0±20%	42.0	0.45	7.4	8.2	9.0	3.2	4.5
SDRH1514D-470M	47.0±20%	54.0	0.55	5.8	6.6	6.75	3.05	4.31
SDRH1514D-680M	68.0±20%	65.0	0.55	5.3	5.7	5.9	2.72	3.84
SDRH1514D-101M	100±10%	93.0	0.55	4.35	4.75	4.95	2.08	2.94
SDRH1514D-221M	220±10%	172.0	0.7	2.95	3.2	3.3	1.61	2.27
SDRH1514D-331M	330±10%	258.0	0.8	2.55	2.65	2.78	1.32	1.86
SDRH1514D-471M	470±10%	382.0	1.2	2.0	2.2	2.3	1.03	1.46
SDRH1514D-102M	1000±10%	786.0	2.0	1.45	1.55	1.6	0.78	1.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

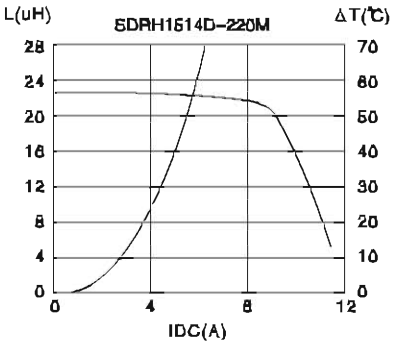


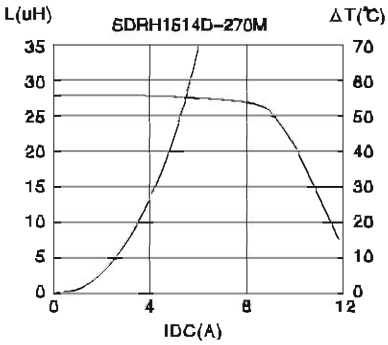


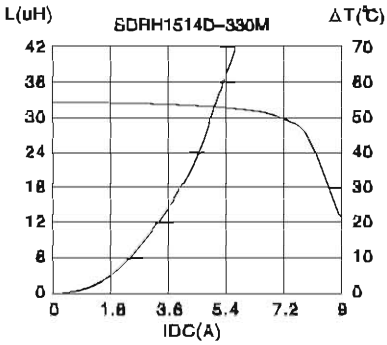
- All data is tested based on 25℃ ambient temperature
- Inductance measure condition at 100kHz, 0.1V
- Leakage inductance is for N1 and is measured with N2 shorted
- Saturation current: the actual value of DC current when the inductance decrease corresponding percentage of its initial value
- Temperature rise current: the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃)
- Operating temperature: −40℃ to +125℃(including self temperature rise)
- Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

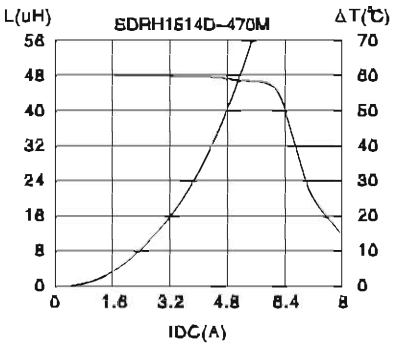
COMMON MODE CHOKE, COUPLED INDUCTOR
SDRH1514D SERIES

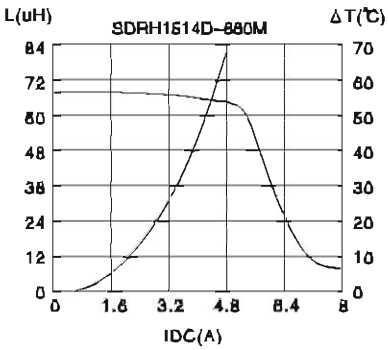
SATURATION CURRENT VS TEMPERATURE RISE CURRENT CURVE

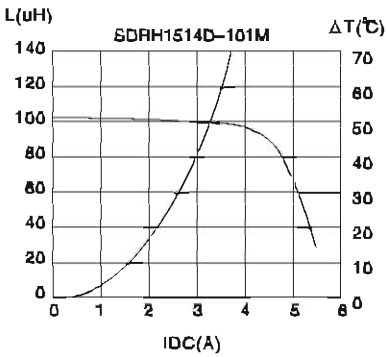


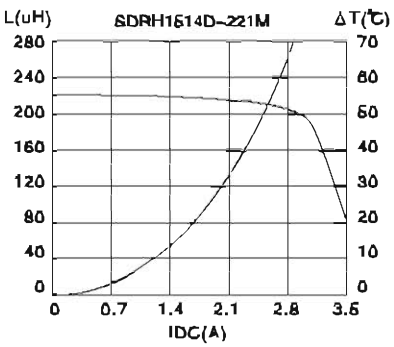


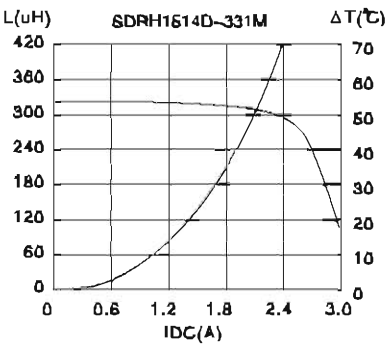


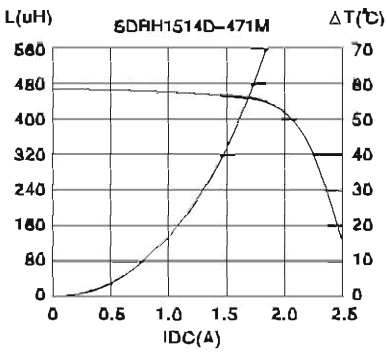


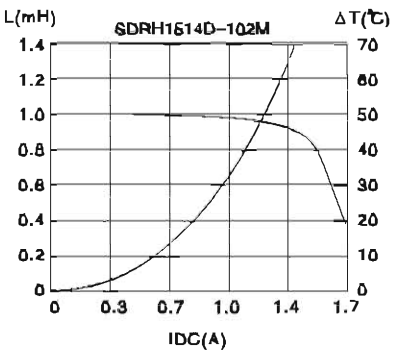


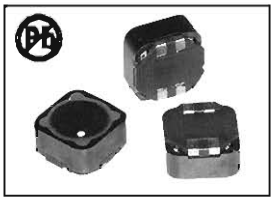












DUAL WINDING,SHIELDING INDUCTORS
SDRH0703D SERIES

Description:

- Four sizes of shielded drum core inductors
- Windings can be connected in series or parallel offering a broadrange of inductance and current ratings
- Inductance ratings from 0.33 μ H to 4.02mH
- Surface Mount

Packaging:

- Supplied in tape and reel packaging 1350 (DRQ73),1100 (DRQ74) 600 (DRQ125),and 350 (DRQ127) per reel

Applications:

- As a transformer: SEPIC,flyback
- As an inductor:buck,boost,coupled inductor
- DC-DC converters
- VRM inductor for CPU and DDR power supplies
- Input and output filter chokes

ELECTRICAL CHARACTERISTICS:

Part Number	Rated Inductance (uH)	Parallel ratings					Series ratings				
		OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec	OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec
SDRH0703D-R33M	0.33	0.308	6.19	14.4	0.0074	1.98	1.224	3.10	7.18	0.0296	3.96
SDRH0703D-1R0M	1.0	0.992	5.25	7.97	0.0103	3.56	3.968	2.63	3.99	0.0411	7.12
SDRH0703D-1R5M	1.5	1.482	4.64	6.52	0.0132	4.36	5.928	2.32	3.26	0.0527	8.72
SDRH0703D-2R2M	2.2	2.070	4.11	5.52	0.0167	5.15	8.280	2.06	2.76	0.0669	10.3
SDRH0703D-3R3M	3.3	3.540	3.31	4.22	0.0259	6.73	14.16	1.66	2.11	0.1036	13.5
SDRH0703D-4R7M	4.7	4.422	3.09	3.78	0.0297	7.52	17.69	1.55	1.89	0.1188	15.0
SDRH0703D-6R8M	6.8	6.480	2.55	3.12	0.0435	9.11	25.92	1.28	1.56	0.1742	18.2
SDRH0703D-8R2M	8.2	8.930	2.19	2.66	0.0592	10.7	35.72	1.10	1.33	0.2368	21.4
SDRH0703D-100M	10	10.30	2.08	2.47	0.0656	11.5	41.20	1.04	1.24	0.2623	23.0
SDRH0703D-150M	15	15.01	1.63	2.05	0.0844	13.9	60.04	0.816	1.03	0.339	27.8
SDRH0703D-220M	22	22.65	1.62	1.67	0.107	17.0	90.60	0.811	0.83	0.429	34.0
SDRH0703D-330M	33	34.41	1.31	1.35	0.166	21.0	137.6	0.653	0.68	0.665	42.0
SDRH0703D-470M	47	48.62	1.08	1.14	0.241	24.9	194.5	0.542	0.57	0.965	49.8
SDRH0703D-680M	68	66.91	0.89	0.96	0.359	29.7	275.6	0.444	0.48	1.43	59.4
SDRH0703D-820M	82	80.37	0.86	0.89	0.384	32.1	321.5	0.430	0.44	1.54	64.2
SDRH0703D-101M	100	101.4	0.73	0.79	0.527	36.0	405.6	0.367	0.39	2.11	72.0
SDRH0703D-151M	150	150.9	0.58	0.65	0.851	44.0	603.6	0.289	0.32	3.41	88.0
SDRH0703D-221M	220	223.3	0.52	0.53	1.05	53.5	893.2	0.260	0.27	4.20	107
SDRH0703D-331M	330	325.3	0.42	0.44	1.59	64.5	1302	0.211	0.22	6.36	129
SDRH0703D-471M	470	465.8	0.35	0.37	2.36	77.2	1863	0.173	0.18	9.44	154
SDRH0703D-681M	680	676.5	0.29	0.31	3.47	93.1	2706	0.143	0.15	13.88	186
SDRH0703D-821M	820	821.7	0.27	0.28	3.93	103	3287	0.134	0.14	15.72	206
SDRH0703D-102M	1000	995.0	0.26	0.25	4.34	113	3980	0.128	0.13	17.36	226

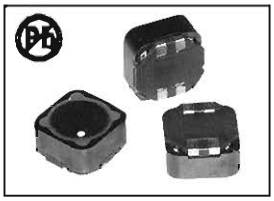
1) Open Circuit Inductance Test Parameters:100kHz,0.25 Vrms,0.0 Adc Parallel:(1,2 –4,3) Series:(1–4) tie (2–3)

2) RMS current for an approximate DT of 40℃ without core loss. It is recommended that the temperature of the part not exceed 125℃.

3) Peak current for approximately 30% roll–off at 20℃

4) DCR limits @ 20℃

5) Applied Volt–Time product (V– μ S) across the inductor. This value represents the applied V– μ Sat 100KHz necessary to generate a core loss equal to 10% of the total losses for a 40° Ctemperature rise.



DUAL WINDING,SHIELDING INDUCTORS

SDRH0704D SERIES

Description:

- Four sizes of shielded drum core inductors
- Windings can be connected in series or parallel offering a broadrange of inductance and current ratings
- Inductance ratings from 0.33 μ H to 4.02mH
- Surface Mount

Packaging:

- Supplied in tape and reel packaging 1350 (DRQ73),1100 (DRQ74) 600 (DRQ125),and 350 (DRQ127) per reel

Applications:

- As a transformer: SEPIC,flyback
- As an inductor:buck,boost,coupled inductor
- DC-DC converters
- VRM inductor for CPU and DDR power supplies
- Input and output filter chokes

ELECTRICAL CHARACTERISTICS:

Part Number	Rated Inductance (uH)	Parallel ratings					Series ratings				
		OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec	OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec
SDRH0704D-R33M	0.33	0.294	6.20	18.4	0.0074	1.71	1.176	3.10	9.18	0.0295	3.42
SDRH0704D-1R0M	1.0	0.952	5.33	10.2	0.0100	3.08	3.808	2.66	5.10	0.0400	6.16
SDRH0704D-1R5M	1.5	1.422	4.96	8.35	0.0115	3.76	5.688	2.48	4.17	0.0461	7.52
SDRH0704D-2R2M	2.2	1.986	4.66	7.06	0.0130	4.45	7.944	2.33	3.53	0.0521	8.9
SDRH0704D-3R3M	3.3	3.398	3.94	5.40	0.0183	5.81	13.58	1.97	2.70	0.0732	11.6
SDRH0704D-4R7M	4.7	5.182	3.34	4.37	0.0254	7.19	20.73	1.67	2.19	0.102	14.4
SDRH0704D-6R8M	6.8	7.344	2.80	3.67	0.0418	8.55	29.38	1.30	1.84	0.167	17.1
SDRH0704D-8R2M	8.2	8.566	2.53	3.40	0.0441	9.23	34.26	1.27	1.70	0.177	18.5
SDRH0704D-100M	10	9.882	2.41	3.17	0.0489	9.92	39.53	1.20	1.58	0.196	19.8
SDRH0704D-150M	15	16.09	2.11	2.48	0.0637	12.7	64.36	1.05	1.24	0.255	25.4
SDRH0704D-220M	22	21.73	1.75	2.13	0.0925	14.7	86.92	0.874	1.07	0.371	29.4
SDRH0704D-330M	33	33.01	1.41	1.73	0.143	18.1	132.0	0.702	0.87	0.574	36.2
SDRH0704D-470M	47	49.64	1.15	1.41	0.216	22.2	198.6	0.573	0.71	0.865	44.4
SDRH0704D-680M	68	69.67	1.03	1.19	0.285	26.3	278.7	0.517	0.60	1.06	52.6
SDRH0704D-820M	82	80.95	0.91	1.11	0.345	28.4	323.8	0.453	0.55	1.38	56.8
SDRH0704D-101M	100	101.6	0.86	0.99	0.383	31.6	406.4	0.430	0.49	1.53	63.6
SDRH0704D-151M	150	150.0	0.69	0.81	0.581	38.8	600.0	0.348	0.41	2.37	77.2
SDRH0704D-221M	220	227.0	0.56	0.66	0.907	47.5	908.0	0.279	0.33	3.63	95
SDRH0704D-331M	330	335.6	0.45	0.54	1.41	57.8	1342	0.224	0.27	5.66	116
SDRH0704D-471M	470	465.3	0.40	0.46	1.74	69.1	1861	0.202	0.23	6.97	136
SDRH0704D-681M	680	671.2	0.33	0.38	2.58	81.7	2685	0.166	0.19	10.3	163
SDRH0704D-821M	820	812.7	0.31	0.35	2.93	89.9	3251	0.156	0.17	11.7	180
SDRH0704D-102M	1000	1009	0.27	0.31	3.89	100	4036	0.135	0.16	15.6	200

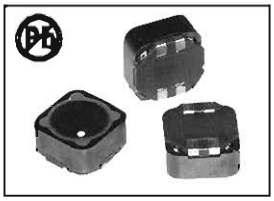
1) Open Circuit Inductance Test Parameters:100kHz,0.25 Vrms,0.0 Adc Parallel:(1,2 –4,3) Series:(1–4) tie (2–3)

2) RMS current for an approximate DT of 40℃ without core loss. It is recommended that the temperature of the part not exceed 125℃.

3) Peak current for approximately 30% roll-off at 20℃

4) DCR limits @ 20℃

5) Applied Volt-Time product (V- μ S) across the inductor. This value represents the applied V- μ Sat 100KHz necessary to generate a core loss equal to 10% of the total losses for a 40° Ctemperature rise.



DUAL WINDING,SHIELDING INDUCTORS

SDRH1205D SERIES

Description:

- Four sizes of shielded drum core inductors
- Windings can be connected in series or parallel offering a broadrange of inductance and current ratings
- Inductance ratings from 0.33 μ H to 4.02mH
- Surface Mount

Packaging:

- Supplied in tape and reel packaging 1350 (DRQ73),1100 (DRQ74) 600 (DRQ125),and 350 (DRQ127) per reel

Applications:

- As a transformer: SEPIC,flyback
- As an inductor:buck,boost,coupled inductor
- DC-DC converters
- VRM inductor for CPU and DDR power supplies
- Input and output filter chokes

ELECTRICAL CHARACTERISTICS:

Part Number	Rated Inductance (uH)	Parallel ratings					Series ratings				
		OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec	OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec
SDRH1205D-R47M	0.47	0.456	17.6	33.0	0.0018	3.17	1.824	8.80	16.5	0.0078	6.34
SDRH1205D-1R0M	1.0	0.894	15.0	23.6	0.0024	4.43	3.576	7.51	11.8	0.0096	8.86
SDRH1205D-1R5M	1.5	1.478	13.8	18.3	0.0029	5.70	5.912	6.89	9.15	0.0114	11.40
SDRH1205D-2R2M	2.2	2.208	10.9	15.0	0.0045	6.97	8.832	5.46	7.50	0.0182	13.9
SDRH1205D-3R3M	3.3	3.084	9.26	12.7	0.0063	8.23	12.34	4.63	6.35	0.0253	16.5
SDRH1205D-4R7M	4.7	5.274	7.18	9.71	0.0105	10.9	21.10	3.59	4.86	0.0420	21.8
SDRH1205D-6R8M	6.8	6.588	6.64	8.68	0.0123	12.0	26.35	3.32	4.34	0.0492	24.0
SDRH1205D-8R2M	8.2	8.048	5.54	7.68	0.0178	13.3	32.19	2.77	3.93	0.0705	26.6
SDRH1205D-100M	10	9.854	5.35	7.17	0.0189	14.6	39.62	2.67	3.59	0.0757	29.2
SDRH1205D-150M	15	15.35	4.27	5.69	0.0298	18.4	61.40	2.13	2.85	0.0120	36.8
SDRH1205D-220M	22	22.36	3.70	4.71	0.0396	22.2	89.44	1.84	2.36	0.159	44.4
SDRH1205D-330M	33	33.74	3.28	3.84	0.0505	27.2	135.0	1.64	1.92	0.203	54.4
SDRH1205D-470M	47	47.47	2.71	3.24	0.0740	32.3	189.9	1.35	1.82	0.297	64.8
SDRH1205D-680M	68	67.91	2.22	2.70	0.101	38.6	271.6	1.11	1.35	0.440	77.2
SDRH1205D-820M	82	86.89	2.05	2.39	0.128	43.7	347.6	1.03	1.20	0.515	87.4
SDRH1205D-101M	100	102.7	1.78	2.20	0.170	47.5	410.8	0.892	1.10	0.682	95.0
SDRH1205D-151M	150	151.1	1.48	1.81	0.249	57.8	604.4	0.739	0.905	0.991	116.2
SDRH1205D-221M	220	216.8	1.19	1.51	0.364	69.0	867.2	0.594	0.755	1.54	138
SDRH1205D-331M	330	332.6	1.06	1.22	0.482	85.5	1330	0.530	0.610	1.93	171
SDRH1205D-471M	470	473.1	0.87	1.02	0.718	102	1892	0.434	0.510	2.87	204
SDRH1205D-681M	680	679.8	0.70	0.85	1.10	122	2719	0.350	0.425	4.42	244
SDRH1205D-821M	820	828.0	0.60	0.77	1.49	135	3312	0.301	0.385	5.96	270
SDRH1205D-102M	1000	1008	0.57	0.70	1.69	149	4032	0.283	0.350	6.76	298

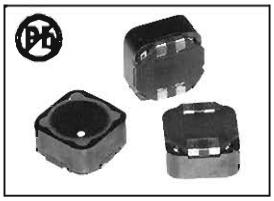
1) Open Circuit Inductance Test Parameters:100kHz,0.25 Vrms,0.0 Adc Parallel:(1,2 –4,3) Series:(1–4) tie (2–3)

2) RMS current for an approximate DT of 40℃ without core loss. It is recommended that the temperature of the part not exceed 125℃.

3) Peak current for approximately 30% roll-off at 20℃

4) DCR limits @ 20℃

5) Applied Volt-Time product (V- μ S) across the inductor. This value represents the applied V- μ Sat 100KHz necessary to generate a core loss equal to 10% of the total losses for a 40° Ctemperature rise.



DUAL WINDING,SHIELDING INDUCTORS

SDRH1207D SERIES

Description:

- Four sizes of shielded drum core inductors
- Windings can be connected in series or parallel offering a broadrange of inductance and current ratings
- Inductance ratings from 0.33 μ H to 4.02mH
- Surface Mount

Packaging:

- Supplied in tape and reel packaging 1350 (DRQ73),1100 (DRQ74) 600 (DRQ125),and 350 (DRQ127) per reel

Applications:

- As a transformer: SEPIC,flyback
- As an inductor:buck,boost,coupled inductor
- DC-DC converters
- VRM inductor for CPU and DDR power supplies
- Input and output filter chokes

ELECTRICAL CHARACTERISTICS:

Part Number	Rated Inductance (uH)	Parallel ratings					Series ratings				
		OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec	OCL ① ±20% (uH)	Irms ② (A)	Isat ③ (A)	DCR ④ (Ω)	Volt ⑤ u-sec
SDRH1207D-R47M	0.47	0.419	17.9	56.0	0.00185	3.50	1.678	8.94	28	0.0078	7.00
SDRH1207D-1R0M	1.0	0.821	15.5	40.0	0.00261	4.90	3.284	7.74	20	0.0104	9.80
SDRH1207D-1R5M	1.5	1.357	13.5	31.1	0.00341	6.30	5.428	6.77	15.6	0.0137	12.60
SDRH1207D-2R2M	2.2	2.027	12.5	25.5	0.00378	7.70	8.108	6.23	12.7	0.0161	15.4
SDRH1207D-3R3M	3.3	2.831	10.4	21.5	0.00587	9.10	11.32	5.23	10.8	0.0229	18.2
SDRH1207D-4R7M	4.7	4.841	8.25	16.5	0.00917	11.9	19.36	4.13	8.24	0.0367	23.8
SDRH1207D-6R8M	6.8	7.387	7.34	13.3	0.0118	14.7	29.55	3.67	6.67	0.0485	29.4
SDRH1207D-8R2M	8.2	8.861	6.32	12.2	0.0157	16.1	35.44	3.16	6.09	0.0627	32.2
SDRH1207D-100M	10	10.47	6.04	11.2	0.0172	17.5	41.88	3.02	5.60	0.0688	35.0
SDRH1207D-150M	15	14.09	5.03	9.66	0.0247	20.3	56.36	2.51	4.83	0.0990	40.6
SDRH1207D-220M	22	22.93	4.00	7.57	0.0391	25.9	91.72	2.00	3.78	0.157	51.8
SDRH1207D-330M	33	33.62	3.23	6.22	0.0600	31.5	135.7	1.61	3.11	0.241	63.0
SDRH1207D-470M	47	47.05	2.85	5.28	0.0719	37.1	188.2	1.47	2.84	0.288	74.2
SDRH1207D-680M	68	66.48	2.44	4.44	0.105	44.1	265.9	1.22	2.22	0.421	88.2
SDRH1207D-820M	82	79.75	2.09	4.08	0.143	48.3	319.0	1.04	2.03	0.573	96.6
SDRH1207D-101M	100	99.31	1.96	3.64	0.163	53.9	397.2	0.980	1.82	0.653	107.8
SDRH1207D-151M	150	144.9	1.59	3.01	0.247	65.1	579.6	0.796	1.51	0.989	130.2
SDRH1207D-221M	220	221.5	1.29	2.43	0.376	80.5	886.0	0.645	1.22	1.50	161
SDRH1207D-331M	330	323.6	1.04	2.01	0.574	97.3	1294	0.522	1.01	2.30	195
SDRH1207D-471M	470	467.1	0.85	1.68	0.861	117	1868	0.427	0.838	3.44	234
SDRH1207D-681M	680	676.7	0.76	1.39	1.08	141	2707	0.380	0.697	4.32	282
SDRH1207D-821M	820	818.1	0.65	1.27	1.47	155	3272	0.325	0.633	5.88	310
SDRH1207D-102M	1000	1005	0.61	1.14	1.66	172	4020	0.307	0.571	6.64	344

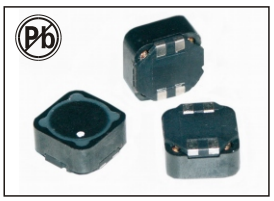
1) Open Circuit Inductance Test Parameters:100kHz,0.25 Vrms,0.0 Adc Parallel:(1,2 –4,3) Series:(1–4) tie (2–3)

2) RMS current for an approximate DT of 40℃ without core loss. It is recommended that the temperature of the part not exceed 125℃.

3) Peak current for approximately 30% roll-off at 20℃

4) DCR limits @ 20℃

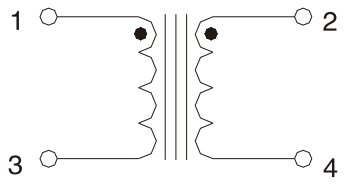
5) Applied Volt-Time product (V- μ S) across the inductor. This value represents the applied V- μ Sat 100KHz necessary to generate a core loss equal to 10% of the total losses for a 40° Ctemperature rise.



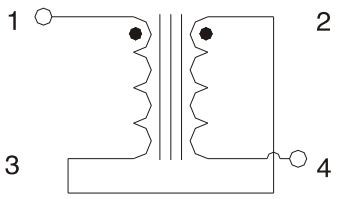
DUAL WINDING,SHIELDING INDUCTORS

SCHEMATIC

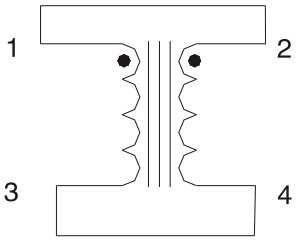
Dual inductor



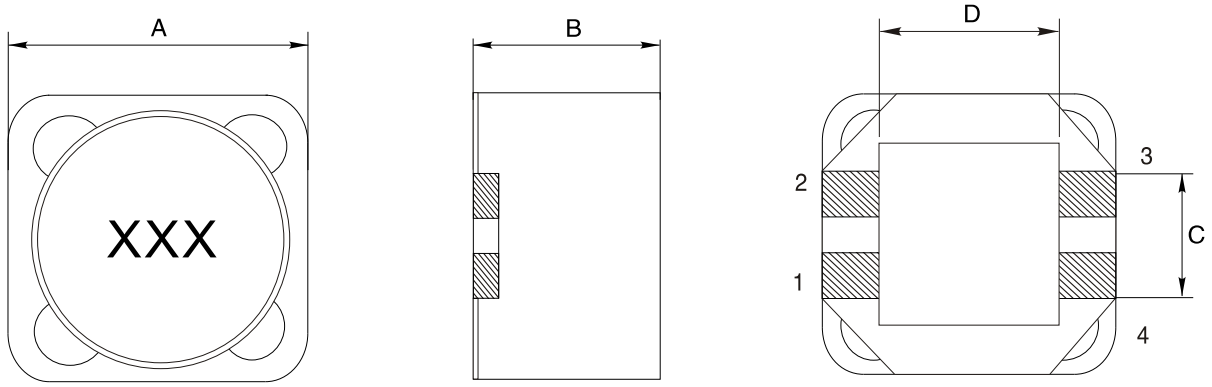
Series Mode



Parallel Mode



PHYSICAL CHARACTERISTICS(Dimensions:mm)



Notes:

1.200Vac Isolation between windings

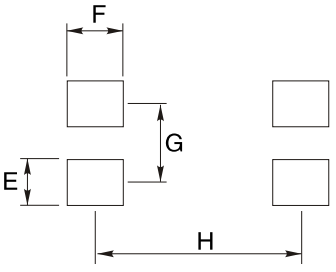
2.Storage temperature:–40℃ to +125℃

3.Operating temperature:–40℃ to +125℃
(range is application specific).

4.Solderreflow temperature:260℃ max. for 10 seconds max.

5.Turns Ratio (1:3):(2–4)=1:1

6. All specifications subject to change without notice.



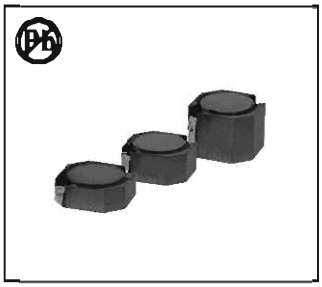
Recommended Land Pattern

Size:

	A	B	C	D	E	F	G	H
0703	7.5Max	4.0Max	2.3±0.2	3.8±0.25	1.0	1.73	1.4	6.17
0704	7.5Max	5.0Max	2.3±0.2	3.8±0.25	1.0	1.73	1.4	6.17
1205	12.5Max	6.0Max	5.0±0.2	7.5±0.25	2.05	3.85	3.0	9.95
1207	12.5Max	8.0Max	5.0±0.2	7.5±0.25	2.05	3.85	3.0	9.95

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH12 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 12A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS@25℃

Inductance		DC Resistance(Ω) ±30%			DC saturation allowable current(A) Typ.			Temp. rise allowable current(A) Typ.		
Code	uH	SDRH1242	SDRH1257	SDRH1277	SDRH1242	SDRH1257	SDRH1277	SDRH1242	SDRH1257	SDRH1277
1R3	1.3	0.006			12.0			6.80		
2R2	2.2	0.008	0.006	0.007	9.00	11.4	11.6	5.95	6.80	6.95
3R3	3.3	0.010	0.008	0.008	7.20	9.40	10.0	5.30	5.70	6.00
4R3	4.3		0.009	0.010		8.10	9.40		5.45	5.80
4R7	4.7	0.012			6.60			4.85		
5R6	5.6		0.011	0.011		7.10	8.50		5.00	5.30
6R2	6.2	0.014			5.40			4.50		
7R5	7.5	0.016	0.012	0.013	4.90	6.20	7.40	4.20	4.70	4.80
100	10	0.021	0.017	0.014	4.50	5.60	6.30	3.60	4.00	4.30
120	12	0.026	0.022	0.018	4.00	5.00	6.00	3.30	3.70	4.15
150	15	0.029	0.026	0.019	3.60	4.40	4.90	3.10	3.30	3.85
180	18	0.038	0.029	0.021	3.10	4.00	4.60	2.70	2.85	3.70
220	22	0.045	0.033	0.024	2.80	3.70	4.30	2.50	2.65	3.25
270	27	0.056	0.043	0.030	2.55	3.20	4.00	2.20	2.55	3.00
330	33	0.065	0.053	0.035	2.25	2.85	3.25	1.95	2.30	2.85
390	39	0.084	0.056	0.046	2.10	2.75	2.85	1.75	2.20	2.50
470	47	0.10	0.069	0.051	1.82	2.50	2.65	1.65	1.95	2.30
560	56	0.12	0.08	0.062	1.75	2.30	2.50	1.44	1.80	2.10
680	68	0.14	0.10	0.077	1.65	2.05	2.40	1.35	1.60	1.90
820	82	0.16	0.13	0.09	1.48	1.85	2.35	1.23	1.40	1.80
101	100	0.20	0.14	0.11	1.38	1.65	2.20	1.15	1.30	1.60
121	120	0.23	0.18	0.13	1.24	1.50	1.90	1.02	1.20	1.40
151	150	0.29	0.23	0.16	1.05	1.35	1.60	0.92	1.05	1.20
181	180	0.35	0.26	0.19	0.98	1.20	1.45	0.82	1.00	1.15
221	220	0.45	0.32	0.24	0.93	1.10	1.35	0.73	0.86	1.05
271	270	0.55	0.39	0.31	0.82	1.00	1.25	0.66	0.81	0.91
331	330	0.67	0.47	0.34	0.70	0.90	1.00	0.59	0.70	0.86
391	390	0.82	0.54	0.40	0.65	0.80	0.90	0.52	0.67	0.80
471	470	0.92	0.66	0.51	0.58	0.75	0.80	0.48	0.61	0.70
561	560	1.10	0.79	0.56	0.54	0.70	0.73	0.45	0.54	0.65
681	680	1.37	0.95	0.73	0.51	0.65	0.68	0.40	0.50	0.60
821	820	1.67	1.15	0.87	0.45	0.55	0.62	0.36	0.44	0.55
102	1000	1.87	1.42	1.07	0.43	0.50	0.60	0.34	0.40	0.50

- Measurement frequency for Inductance: 100KHz
- DC saturation allowable current: value of inductance decrease within 30%
- Temperature rise allowable current: A rise in temperature of core surface is within 40℃
- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter Or HP4342A – SRF-HP4191A IDCMax
- Operating temperature: -40℃ to +105℃
- Storage temperature: -40℃ to +105℃

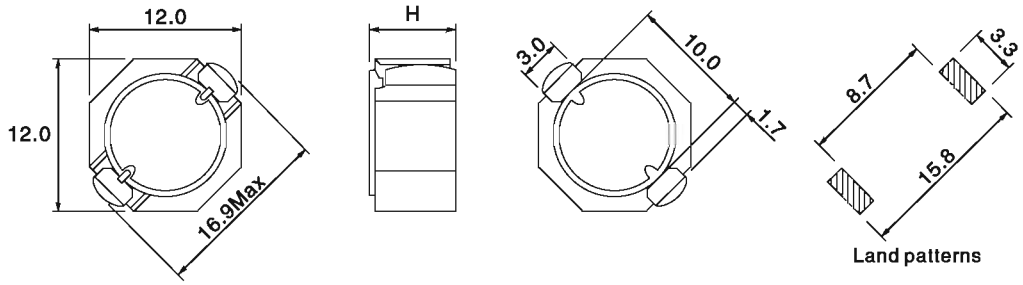
Tolerance	SDRH1242	SDRH1257	SDRH1277
±30%(N)	1.3~7.5uH	2.2~7.5uH	2.2~7.5uH
±20%(M)	10~1000uH		

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

SDRH12 Seires

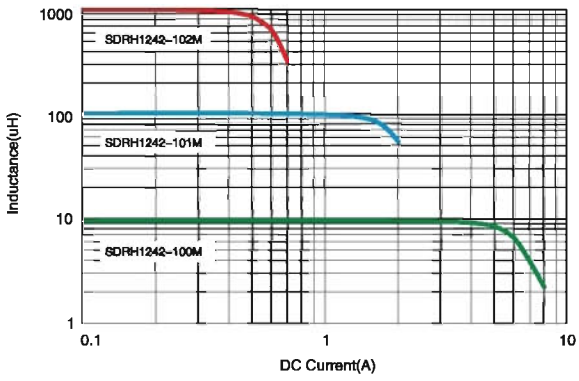
PHYSICAL CHARACTERISTICS & TECHNICAL INFORMATION

Dimensions(mm)

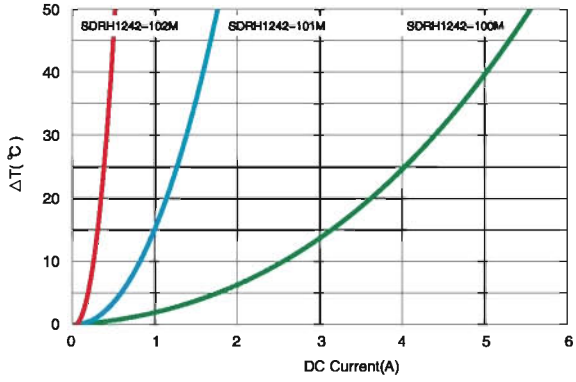


P/N	H
1242	4.5max
1257	6.0max
1277	8.0max

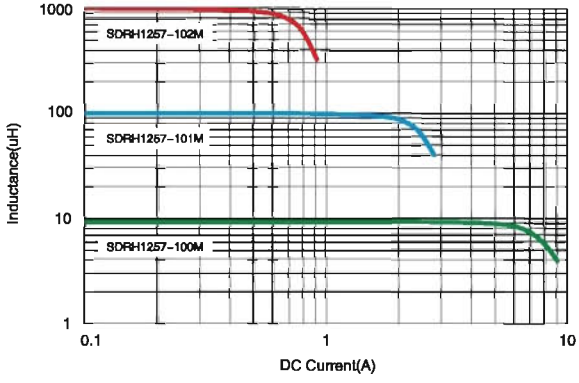
Characteristics of DC Superposition



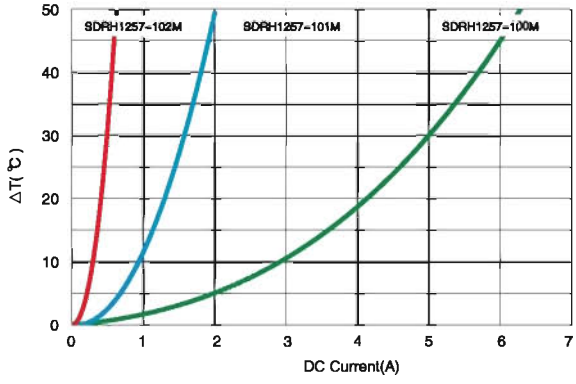
Characteristics of Temperature rise



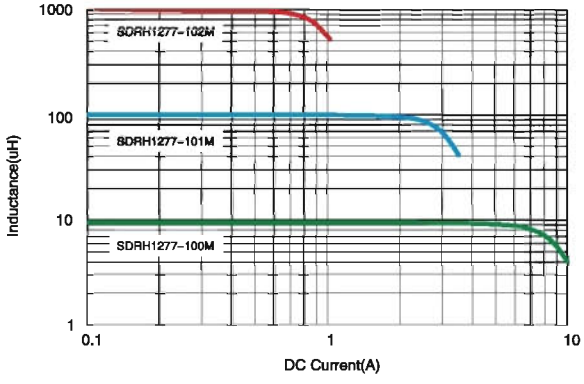
Characteristics of DC Superposition



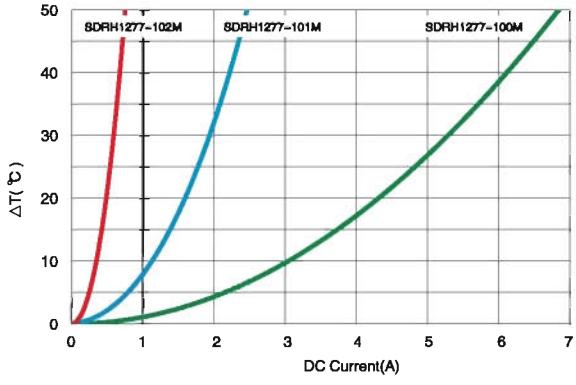
Characteristics of Temperature rise



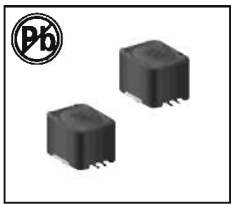
Characteristics of DC Superposition



Characteristics of Temperature rise



SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840



MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1209 SERIES

FEATURES:

- Shieldded Structure
- Height of 10mm
- Current rating up to 11A
- RoHScompliant

OPTIONS:

- Tape & Reel is Standard (Qty:250pcs.) Bulk packaging Available for Smaller Quantities
- Tolerance:K=10%,M=20% is Standard,Tighter Tolerances Available

COMMON APPLCATIONS:

- Input/Output of DC-DC converter
- DC/DC converter
- Power supplies for: porttable communication equipment
- Camcordert
- LCD,TV,PDA,PDP

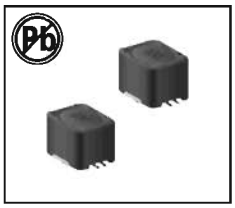
ELECTRICAL CHARACTERISTICS: 25℃

Part Number	Inductance (uH) 1KHz,0.25V	Tol. %	Q Ref.	Q Test Freq. (MHz)	SRF (MHz) Typ.	DCR Max (mΩ)	Irms (A)	Isat (A)
SDRH1209-1R0Y	1.0	±30	10	7.96	85	6.0	11.0	16.5
SDRH1209-1R8Y	1.8	±30	10	7.96	56	7.5	10.2	13.2
SDRH1209-2R2Y	2.2	±30	10	7.96	54	9.0	9.5	12.2
SDRH1209-3R3Y	3.3	±30	15	7.96	44	10	9.0	10.5
SDRH1209-4R7Y	4.7	±30	8	7.96	35	12	8.5	9.6
SDRH1209-5R6Y	5.6	±30	12	7.96	28	14	8.0	8.5
SDRH1209-6R8Y	6.8	±30	12	7.96	20	15	7.9	8.3
SDRH1209-8R2Y	8.2	±30	11	7.96	16	17	7.3	7.5
SDRH1209-100M	10	±20	16	2.52	12	18	6.5	6.5
SDRH1209-120M	12	±20	14	2.52	18	22	6.3	6.1
SDRH1209-150M	15	±20	16	2.52	10.5	32	5.8	5.3
SDRH1209-180M	18	±20	13	2.52	8.0	35	5.5	5.1
SDRH1209-220M	22	±20	16	2.52	8.0	38	5.2	4.5
SDRH1209-270M	27	±20	16	2.52	6.5	40	5.0	4.2
SDRH1209-330M	33	±20	16	2.52	6.5	52	4.4	3.7
SDRH1209-390M	39	±20	16	2.52	4.5	66	4.2	3.5
SDRH1209-470M	47	±20	16	2.52	4.5	72	3.8	3.1
SDRH1209-560M	56	±20	8	2.52	4.0	90	3.4	2.9
SDRH1209-680M	68	±20	12	2.52	3.8	102	3.0	2.7
SDRH1209-820M	82	±20	15	2.52	3.5	112	2.8	2.5
SDRH1209-101M	100	±20	16	0.796	3.0	135	2.5	2.2
SDRH1209-121M	120	±20	13	0.796	2.6	170	2.3	1.9
SDRH1209-151M	150	±20	12	0.796	2.2	190	2.2	1.8
SDRH1209-181M	180	±20	14	0.796	1.8	250	1.9	1.6
SDRH1209-221M	220	±20	15	0.796	1.8	315	1.7	1.5
SDRH1209-271M	270	±20	16	0.796	1.8	410	1.5	1.3
SDRH1209-331M	330	±20	14	0.796	1.8	450	1.4	1.2
SDRH1209-391M	390	±20	16	0.796	1.3	600	1.3	1.1
SDRH1209-471M	470	±20	12	0.796	0.85	820	1.2	1.0
SDRH1209-561M	560	±20	12	0.796	0.85	900	1.1	0.95
SDRH1209-681M	680	±20	11	0.796	0.85	1200	1.0	0.85
SDRH1209-821M	820	±20	6	0.796	0.85	1320	0.85	0.75
SDRH1209-102M	1000	±20	22	0.796	0.85	1650	0.75	0.70

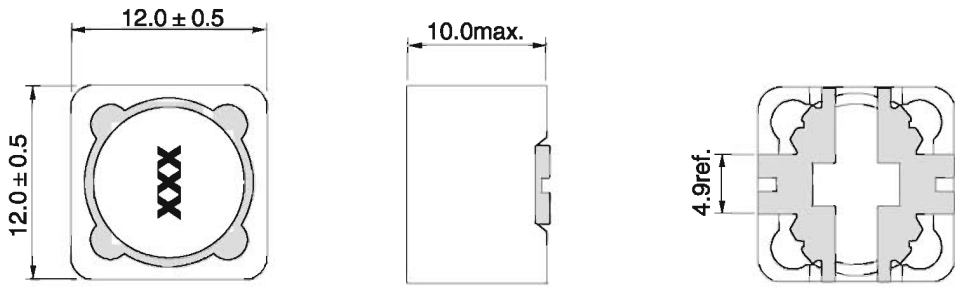
Operating Temperature.....-40℃ to +125℃(Temperature rise included)
Storage Temperature.....-40℃ to +125℃
Resistance to Soldering Heat.....260℃ for 5 sec.
Rated Current.....Inductance drop of 20 % typ. at Isat
Temperature Rise.....40℃ typ. at Irms

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

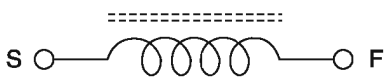
SDRH1209 SERIES

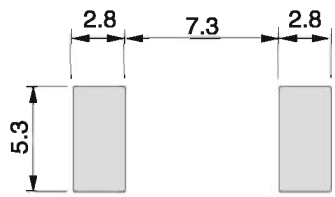


PRODUCT DIMENSIONS:

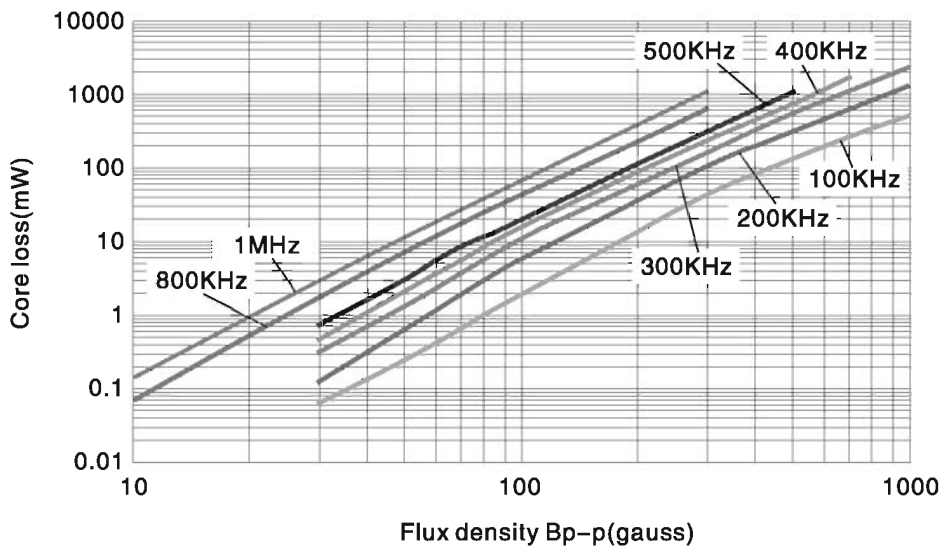


SCHEMATIC & RECOMMENDED LAYOUT:



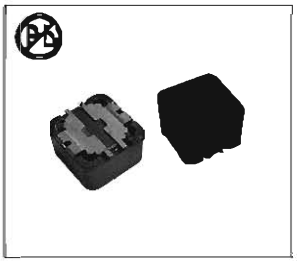


CORE LOSS VS. FLUX DENSITY:



MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1508 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

COMMON APPLICATIONS:

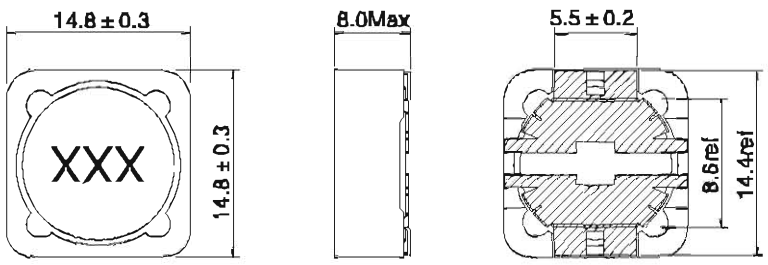
- Ideal for a variety of DC-DC converter
- DC/DC converter
- Power supplies for:
  portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

ELECTRICAL CHARACTERISTICS:

Part Number	Marking	Inductance L0(μH) ±20% @0Adc	Saturation current DC Amps Isat(A)	DCR Max. (Ω).
SDRH1508-100M	100	10	8.6	0.038
SDRH1508-150M	150	15	6.0	0.04
SDRH1508-220M	220	22	5.5	0.048
SDRH1508-330M	330	33	4.6	0.05
SDRH1508-470M	470	47	4.0	0.1
SDRH1508-680M	680	68	3.8	0.15
SDRH1508-101M	101	100	2.5	0.135
SDRH1508-221M	221	220	2.0	0.22
SDRH1508-471M	471	470	1.5	0.5
SDRH1508-102M	102	1000	0.85	1.9
SDRH1508-222M	222	2200	0.62	2.42
SDRH1508-472M	472	4700	0.44	4.0
SDRH1508-682M	682	6800	0.35	5.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 0.1V
- Inductance is measured with HP-4284A LCR meter or equivalent.
- All test data is referenced to 25℃ ambient.
- Rated current is that which causes a 20% inductance reduction of the initial value, or coil temperature to rise by 40℃,whichever is smaller.
- Operating Temperature Range -40℃ to +125℃

SMD HIGH CURRENT POWER INDUCTORS

LPA 1030 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

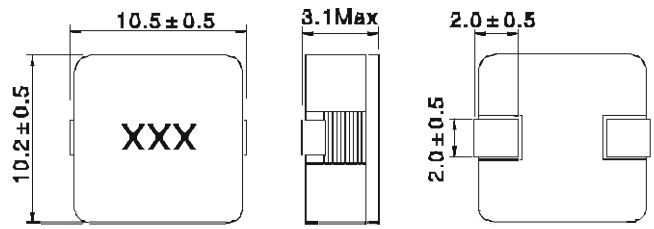
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1030-R20M	R20	0.2	22.0	50.0	0.9
LPA1030-R33M	R33	0.33	18.0	36.0	2.39
LPA1030-R56M	R56	0.56	18.0	33.0	2.39
LPA1030-R68M	R68	0.68	14.0	21.0	5.27
LPA1030-1R0M	1R0	1.0	14.0	21.0	5.27
LPA1030-1R2M	1R2	1.2	12.0	15.0	7.28
LPA1030-1R5M	1R5	1.5	12.0	18.0	7.28
LPA1030-2R2M	2R2	2.2	9.0	15.0	12.52

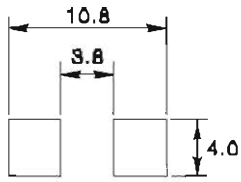
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

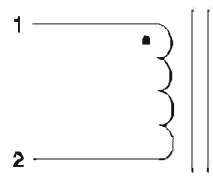
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 1040 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

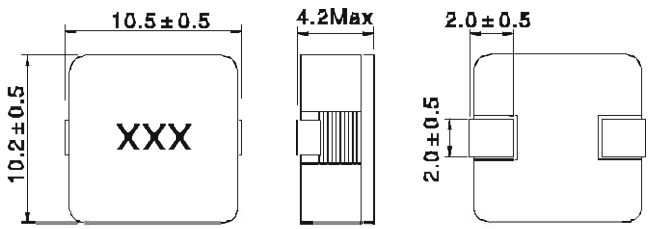
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1040-R15M	R15	0.15	25.0	60.0	0.64
LPA1040-R30M	R30	0.3	22.0	35.0	1.21
LPA1040-R56M	R56	0.56	20.0	30.0	1.77
LPA1040-1R0M	1R0	1.0	16.0	20.0	3.63
LPA1040-1R5M	1R5	1.5	14.0	17.0	5.83
LPA1040-2R2M	2R2	2.2	11.0	13.0	8.03
LPA1040-2R8M	2R8	2.8	9.5	11.0	11.86
LPA1040-4R3M	4R3	4.3	8.0	8.0	15.51

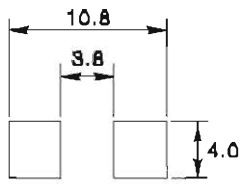
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

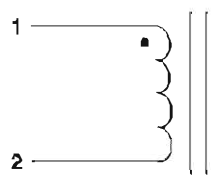
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 1050 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

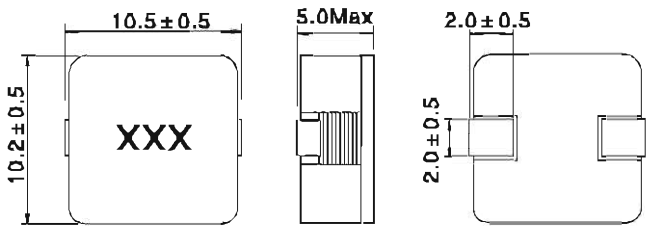
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1050-R16M	R16	0.16	25.0	58.0	0.56
LPA1050-R40M	R40	0.4	24.0	37.0	0.74
LPA1050-R72M	R72	0.72	22.0	35.0	1.43
LPA1050-1R2M	1R2	1.2	20.0	25.0	1.98
LPA1050-1R8M	1R8	1.8	16.0	18.0	3.85
LPA1050-2R4M	2R4	2.4	14.0	17.0	5.23
LPA1050-3R3M	3R3	3.3	12.0	15.0	6.49
LPA1050-4R2M	4R2	4.2	11.0	14.0	7.81
LPA1050-5R5M	5R5	5.5	10.0	12.0	11.33
LPA1050-6R5M	6R5	6.5	8.4	10.0	13.75
LPA1050-7R8M	7R8	7.8	8.0	9.5	14.96
LPA1050-100M	100	10	7.2	8.5	17.93
LPA1050-160M	160	16	5.0	6.5	37.95

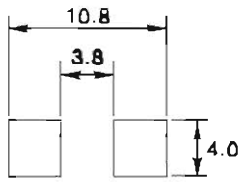
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

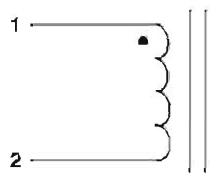
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A, WK3265B
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 1230 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi–phase regulators

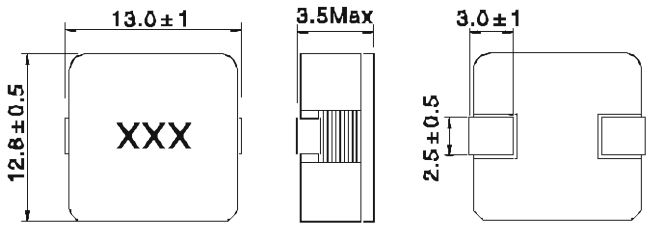
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1230–R25N	R25	0.25	24.0	60.0	0.83
LPA1230–R68M	R68	0.68	22.0	40.0	1.74
LPA1230–1R2M	1R2	1.2	17.0	28.0	3.14
LPA1230–1R8M	1R8	1.8	14.0	22.0	6.16
LPA1230–2R2M	2R2	2.2	14.0	18.0	6.27
LPA1230–3R3M	3R3	3.3	12.0	14.0	8.91

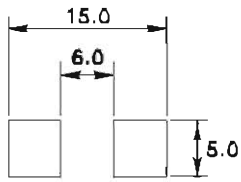
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

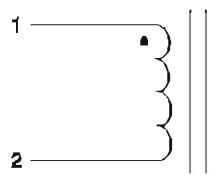
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range –55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 500PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 1260 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

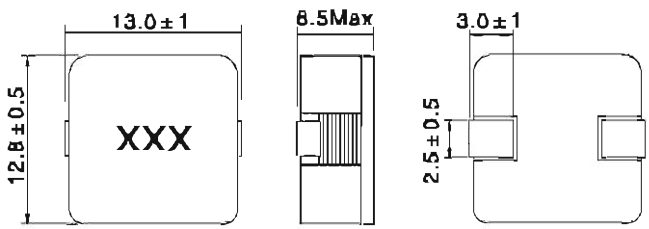
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1260-R22M	R22	0.2	32.0	65.0	0.39
LPA1260-R47M	R47	0.47	30.0	50.0	0.74
LPA1260-R82M	R82	0.82	27.0	35.0	0.99
LPA1260-1R3M	1R3	1.3	25.0	25.0	1.98
LPA1260-2R0M	2R0	2.0	23.0	22.0	2.86
LPA1260-2R8M	2R8	2.8	20.0	17.5	3.63
LPA1260-3R7M	3R7	3.7	17.0	16.0	5.39
LPA1260-4R7M	4R7	4.7	13.0	15.0	7.70
LPA1260-6R0M	6R0	6.0	12.0	14.0	9.24
LPA1260-7R3M	7R3	7.3	13.0	12.0	6.49
LPA1260-9R2M	9R2	9.2	12.0	10.5	8.58
LPA1260-110M	110	11.3	11.0	9.5	10.0
LPA1260-130M	130	13.0	10.0	9.0	12.32
LPA1260-150M	150	15.4	9.0	8.0	16.28
LPA1260-220M	120	22.0	8.0	6.5	27.17

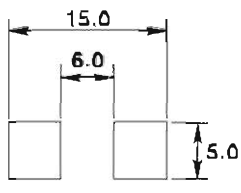
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

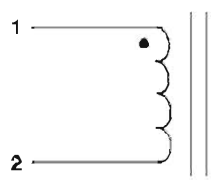
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t lemp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 500PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 1890 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

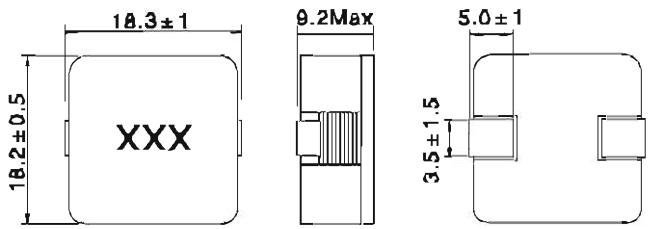
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1890-R82M	R82	0.82	41.5	65.0	0.58
LPA1890-1R3M	1R3	1.3	34.5	62.0	1.02
LPA1890-1R9M	1R9	1.9	32.5	52.0	1.3
LPA1890-2R6M	2R6	2.6	31.5	50.0	1.71
LPA1890-3R5M	3R5	3.5	22.5	37.0	3.35
LPA1890-4R5M	4R5	4.5	20.5	37.0	3.67
LPA1890-5R6M	5R6	5.6	19.0	33.0	4.0
LPA1890-6R8M	6R8	6.8	16.5	27.0	4.43
LPA1890-100M	100	10	15.0	21.5	7.45
LPA1890-100MT	100	10	16.5	18.5	7.67
LPA1890-150M	150	15	14.0	14.0	10.05
LPA1890-220M	220	22	11.0	11.0	15.77
LPA1890-330M	330	33	8.5	9.0	24.41
LPA1890-470M	470	47	6.8	7.0	36.72

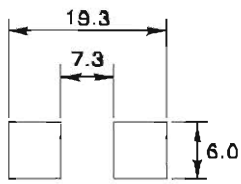
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

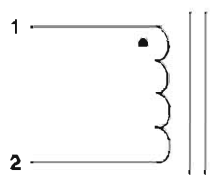
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t lemp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 250PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 7030 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

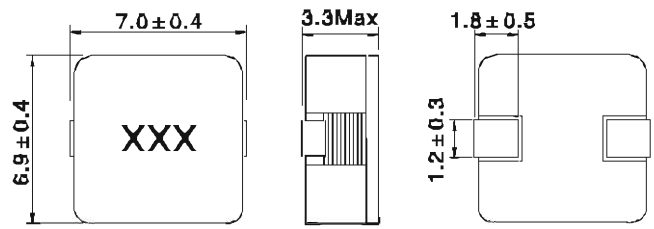
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA7030-R13M	R13	0.13	22	48	1.0
LPA7030-R24M	R24	0.24	18	40	1.98
LPA7030-R52M	R52	0.52	14	20	4.07
LPA7030-R95M	R95	0.95	11	13	6.82
LPA7030-1R2M	1R2	1.15	8.5	13	9.46
LPA7030-1R5M	1R5	1.5	7.5	12	13.97
LPA7030-2R0M	2R0	2.0	6.5	9	15.82

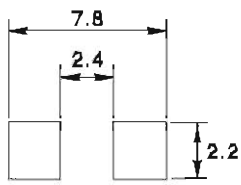
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

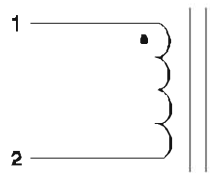
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affact the part temperature. part temperature should be verified in The end application.
- Packing: 1000PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 7040 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

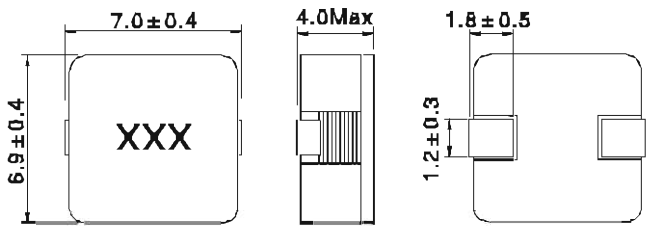
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA7040-R22M	R22	0.22	21.0	32.0	1.21
LPA7040-R40M	R40	0.4	19.0	25.0	2.04
LPA7040-R68M	R68	0.68	17.0	20.0	3.41
LPA7040-1R0M	1R0	1.0	15.0	19.0	5.06
LPA7040-1R5M	1R5	1.5	11.0	14.0	7.28
LPA7040-2R2M	2R2	2.2	9.0	13.0	12.54
LPA7040-3R3M	3R3	3.3	6.5	11.0	18.92
LPA7040-4R7M	4R7	4.7	6.0	7.0	21.45

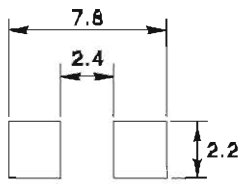
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

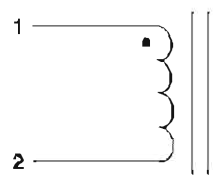
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 1000PCS/REEL

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

LPA 7050 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI affact via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

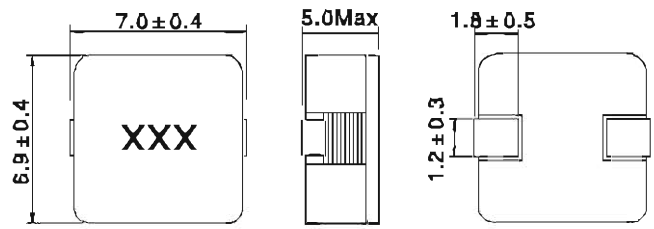
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA7050-R24M	R24	0.24	20.0	28.0	1.1
LPA7050-R47M	R47	0.47	18.0	20.0	1.49
LPA7050-R76M	R76	0.76	15.5	15.0	2.48
LPA7050-1R1M	1R1	1.1	15.0	13.0	3.47
LPA7050-1R5M	1R5	1.5	13.0	11.0	4.73
LPA7050-2R0M	2R0	2.0	11.5	9.0	6.44
LPA7050-3R3M	3R3	3.3	9.0	8.0	9.90
LPA7050-4R9M	4R9	4.9	6.5	6.5	15.95
LPA7050-6R5M	6R5	6.5	6.0	6.0	23.65
LPA7050-7R6M	7R6	7.6	4.2	4.8	33.22
LPA7050-8R5M	8R5	8.5	4.0	4.5	35.75
LPA7050-100M	100	10	3.5	4.0	36.30

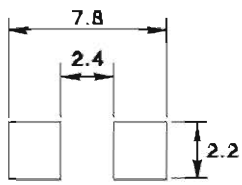
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

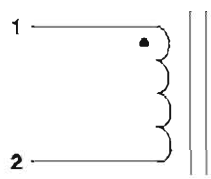
Dimensions(mm)



Land patterns



Winding



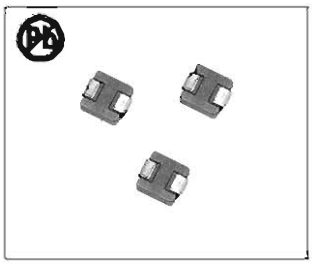
Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A, WK3265B
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 1000PCS/REEL

Note:All specifications subject to change without notice.

SMD MOLDED POWER INDUCTORS

LPM0420C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.5mm x 4.0mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

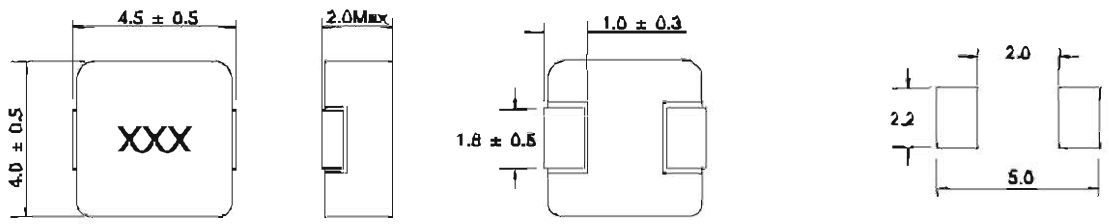
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0420C-R10M	0.10	18.0	35.0	3.50	4.20
LPM0420C-R15M	0.15	15.0	28.0	3.70	4.50
LPM0420C-R22M	0.22	12.0	23.0	5.10	6.00
LPM0420C-R33M	0.33	10.0	17.0	8.30	9.80
LPM0420C-R47M	0.47	9.0	15.0	12.8	16.0
LPM0420C-R56M	0.56	8.0	13.0	13.0	16.0
LPM0420C-R68M	0.68	7.0	12.0	16.0	19.0
LPM0420C-1R0M	1.0	6.0	10.0	23.5	28.0
LPM0420C-1R2M	1.2	5.0	9.0	27.0	32.0
LPM0420C-1R5M	1.5	4.5	8.0	31.0	37.0
LPM0420C-2R2M	2.2	4.0	7.0	53.0	60.0
LPM0420C-3R3M	3.3	3.5	6.0	86.0	98.0
LPM0420C-4R7M	4.7	3.0	5.0	112.0	125.0
LPM0420C-5R6M	5.6	2.8	4.5	146.0	173.0
LPM0420C-6R8M	6.8	2.5	4.0	165.0	185.0
LPM0420C-8R2M	8.2	2.0	3.0	241.0	260.0
LPM0420C-100M	10.0	1.8	3.0	285.0	310.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



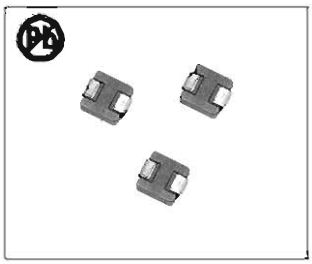
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0515C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 5.5mm x 5.2mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

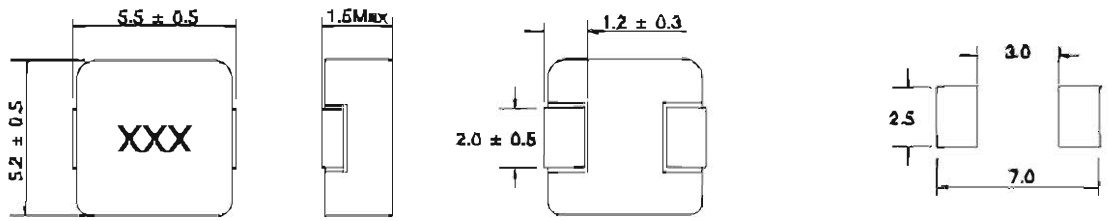
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0515C-R15M	0.15	18.0	28.0	4.50	5.40
LPM0515C-R22M	0.22	15.0	25.0	6.50	7.80
LPM0515C-R47M	0.47	12.0	20.0	11.0	13.0
LPM0515C-R68M	0.68	10.0	15.0	11.5	13.5
LPM0515C-1R0M	1.0	8.0	10.0	19.5	24.0
LPM0515C-2R2M	2.2	5.0	7.0	63.0	70.0
LPM0515C-3R3M	3.3	4.0	6.0	68.0	75.0
LPM0515C-4R7M	4.7	3.0	5.0	108.0	118.0
LPM0515C-5R6M	5.6	2.8	4.5	128.0	140.0
LPM0515C-6R8M	6.8	2.5	4.2	142.0	155.0
LPM0515C-8R2M	8.2	2.4	4.0	175.0	190.0
LPM0515C-100M	10.0	2.3	3.8	255.0	280.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
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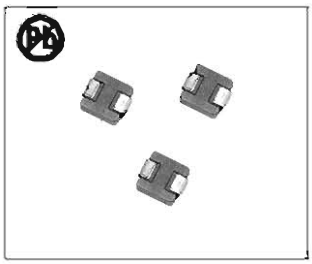
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0518C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low profile: 5.5mm x 5.2mm x 1.8mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

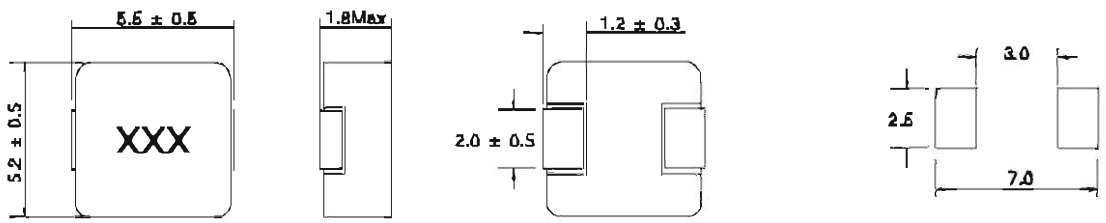
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0518C-R22M	0.22	18.0	28.0	4.40	5.30
LPM0518C-R47M	0.47	13.0	22.0	8.00	9.50
LPM0518C-1R0M	1.0	8.0	14.0	14.0	16.5
LPM0518C-2R2M	2.2	6.0	8.0	36.0	45.0
LPM0518C-4R7M	4.7	3.5	5.5	76.0	85.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



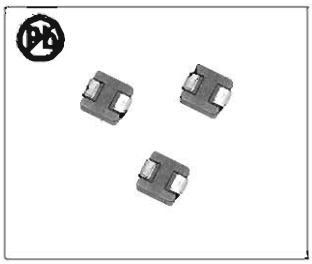
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0520C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 5.5mm x 5.2mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

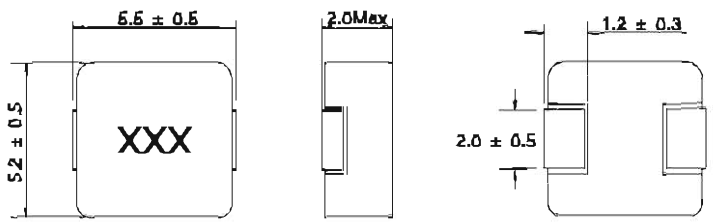
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0520C-R10M	0.10	20.0	32.0	3.00	3.60
LPM0520C-R22M	0.22	18.0	28.0	4.30	5.20
LPM0520C-R33M	0.33	16.0	26.0	8.6	10.5
LPM0520C-R47M	0.47	14.0	24.0	8.6	10.5
LPM0520C-R68M	0.68	12.0	18.0	12.0	15.0
LPM0520C-1R0M	1.0	10.0	15.0	17.0	20.0
LPM0520C-1R5M	1.5	7.0	13.0	28.0	33.0
LPM0520C-2R2M	2.2	6.0	9.0	39.0	39.0
LPM0520C-3R3M	3.3	5.0	8.0	60.0	70.0
LPM0520C-4R7M	4.7	4.0	6.0	84.0	95.0
LPM0520C-5R6M	5.6	3.5	5.0	84.0	95.0
LPM0520C-6R8M	6.8	3.0	4.5	93.0	105.0
LPM0520C-8R2M	8.2	2.5	4.0	132.0	145.0
LPM0520C-100M	10.0	2.0	3.5	155.0	175.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
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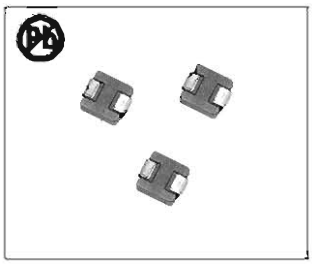
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0530C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 5.5mm x 5.2mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

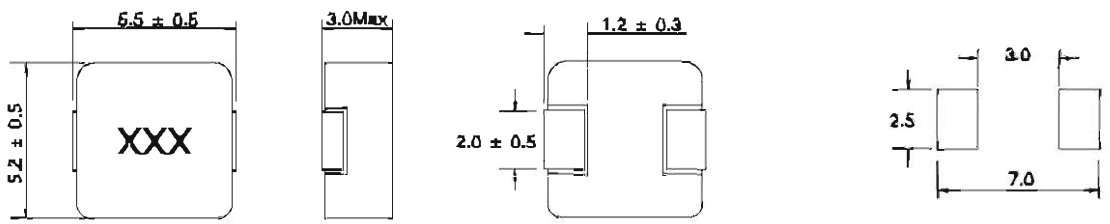
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0530C-R10M	0.10	23.0	38.0	2.60	3.30
LPM0530C-R15M	0.15	22.0	35.0	2.80	3.50
LPM0530C-R22M	0.22	19.0	32.0	4.00	5.00
LPM0530C-R33M	0.33	18.0	28.0	5.10	6.00
LPM0530C-R47M	0.47	16.0	26.0	6.50	8.00
LPM0530C-R68M	0.68	14.0	24.0	8.0	10.0
LPM0530C-1R0M	1.0	12.0	18.0	11.5	14.0
LPM0530C-1R2M	1.2	11.0	16.0	11.5	14.0
LPM0530C-1R5M	1.5	9.0	14.0	15.5	18.5
LPM0530C-2R2M	2.2	8.0	13.0	25.5	31.0
LPM0530C-3R3M	3.3	7.0	11.0	32.5	37.0
LPM0530C-4R7M	4.7	5.5	9.0	56.0	66.0
LPM0530C-5R6M	5.6	5.0	8.0	63.0	72.0
LPM0530C-6R8M	6.8	4.5	7.0	76.0	86.0
LPM0530C-100M	10.0	4.0	6.0	111.0	122.0
LPM0530C-150M	15.0	3.0	5.0	153.0	166.0
LPM0530C-330M	33.0	2.0	3.5	315.0	340.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
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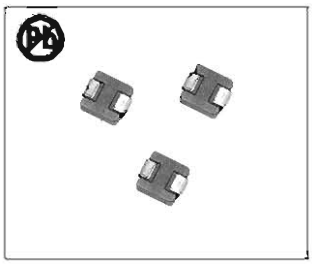
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0620C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 7.4mm x 6.8mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

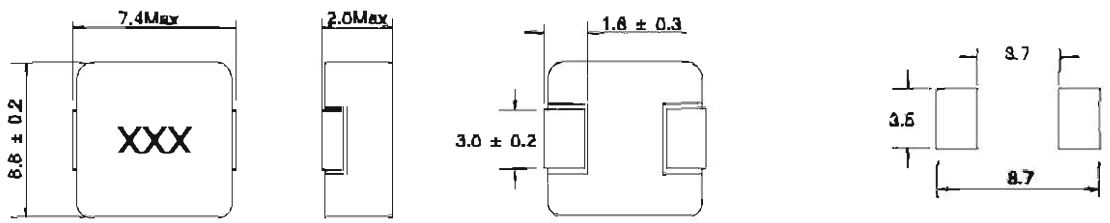
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0620C-R10M	0.10	21.0	45.0	2.70	3.30
LPM0620C-R22M	0.22	17.0	30.0	2.80	3.50
LPM0620C-R33M	0.33	15.0	26.0	5.60	7.00
LPM0620C-R47M	0.47	11.0	23.0	6.10	7.80
LPM0620C-R68M	0.68	10.0	21.0	9.8	12.0
LPM0620C-1R0M	1.00	9.0	20.0	16.0	19.0
LPM0620C-1R5M	1.50	8.0	18.0	22.0	26.0
LPM0620C-2R2M	2.20	6.0	12.0	32.0	38.0
LPM0620C-3R3M	3.30	5.0	9.0	45.0	53.0
LPM0620C-4R7M	4.70	4.5	8.0	53.0	62.0
LPM0620C-6R8M	6.80	4.0	6.0	114.0	128.0
LPM0620C-100M	10.00	3.0	5.0	147.0	163.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



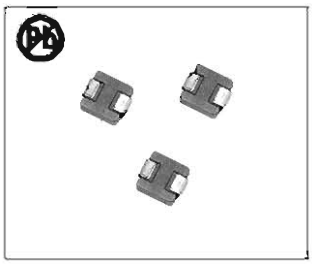
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0624C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 7.4mm x 6.8mm x 2.4mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

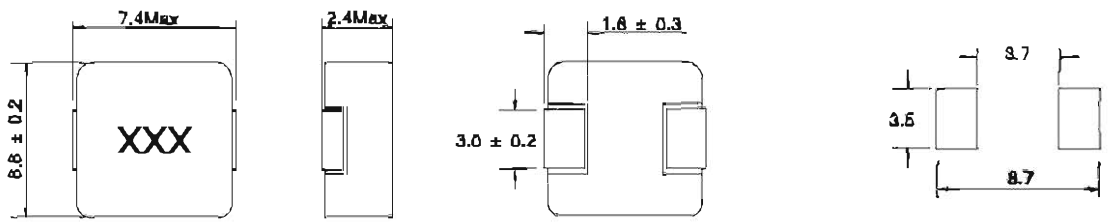
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0624C-R10M	0.10	30.0	60.0	1.30	1.60
LPM0624C-R22M	0.22	21.0	34.0	2.50	3.00
LPM0624C-R47M	0.47	16.0	26.0	4.00	4.80
LPM0624C-R68M	0.68	14.0	23.0	7.10	8.50
LPM0624C-R82M	0.82	13.0	22.0	9.6	11.5
LPM0624C-1R0M	1.0	12.0	22.0	11.3	13.0
LPM0624C-1R5M	1.5	10.0	19.0	14.0	17.0
LPM0624C-2R2M	2.2	9.0	14.0	22.0	26.0
LPM0624C-3R3M	3.3	7.0	12.0	32.0	38.0
LPM0624C-4R7M	4.7	6.0	11.0	47.0	55.0
LPM0624C-6R8M	6.8	5.0	9.0	65.0	75.0
LPM0624C-8R2M	8.2	4.5	8.0	82.0	90.0
LPM0624C-100M	10.0	4.0	7.0	86.0	95.0
LPM0624C-150M	15.0	3.5	6.0	122.0	136.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



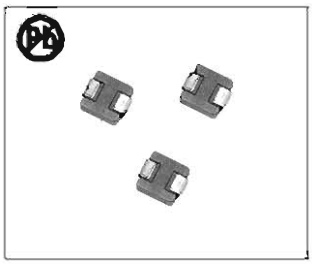
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0630C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low profile: 7.4mm x 6.8mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

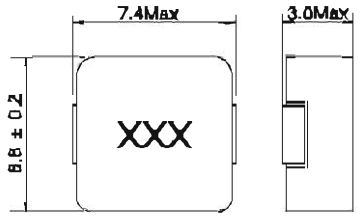
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

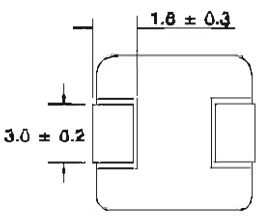
ELECTRICAL CHARACTERISTICS:

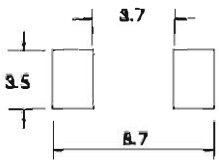
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0630C-R10M	0.10	30.0	75.0	1.20	1.50
LPM0630C-R12M	0.12	29.0	60.0	1.70	2.10
LPM0630C-R15M	0.15	28.0	53.0	1.70	2.10
LPM0630C-R22M	0.22	25.0	45.0	2.20	2.70
LPM0630C-R33M	0.33	23.0	35.0	2.60	3.20
LPM0630C-R36M	0.36	22.0	32.0	3.20	4.00
LPM0630C-R47M	0.47	21.0	31.0	3.50	4.50
LPM0630C-R68M	0.68	20.0	30.0	4.90	6.00
LPM0630C-R82M	0.82	16.0	28.0	7.30	8.50
LPM0630C-1R0M	1.0	13.0	26.0	7.50	9.00
LPM0630C-1R2M	1.2	12.0	22.0	9.3	11.0
LPM0630C-1R5M	1.5	11.0	20.0	10.5	13.0
LPM0630C-2R2M	2.2	10.0	18.0	14.5	18.5
LPM0630C-3R3M	3.3	9.0	15.0	25.0	30.0
LPM0630C-4R7M	4.7	8.0	14.0	36.0	40.0
LPM0630C-5R6M	5.6	7.0	13.0	43.0	51.0
LPM0630C-6R8M	6.8	6.0	11.0	54.0	63.0
LPM0630C-100M	10.0	4.5	8.0	78.0	88.0
LPM0630C-150M	15.0	3.5	6.0	94.0	105.0
LPM0630C-220M	22.0	2.5	4.0	122.0	138.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)







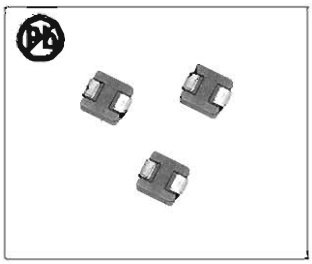
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0640C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 7.4mm x 6.8mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

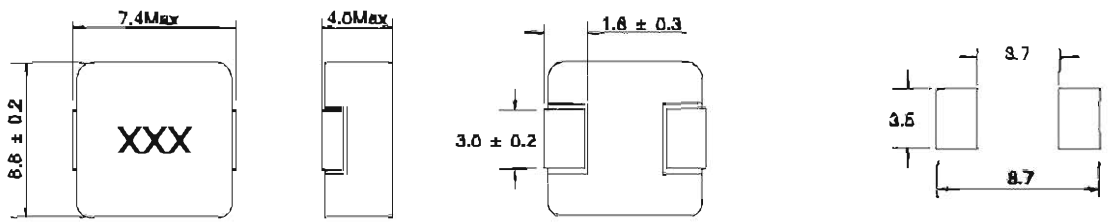
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0640C-R15M	0.15	40.0	65.0	0.65	0.80
LPM0640C-R22M	0.22	35.0	48.0	0.89	1.05
LPM0640C-R33M	0.33	25.0	35.0	1.80	2.04
LPM0640C-R56M	0.56	22.0	30.0	3.50	4.50
LPM0640C-1R0M	1.0	14.0	25.0	5.70	7.00
LPM0640C-2R2M	2.2	11.0	20.0	11.2	13.5
LPM0640C-3R3M	3.3	9.0	16.0	15.0	18.0
LPM0640C-4R7M	4.7	8.0	15.0	22.0	26.0
LPM0640C-5R6M	5.6	7.0	14.0	29.0	35.0
LPM0640C-6R8M	6.8	6.5	13.0	31.0	37.0
LPM0640C-100M	10.0	5.0	12.0	59.0	70.0
LPM0640C-120M	12.0	4.0	8.0	65.0	80.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



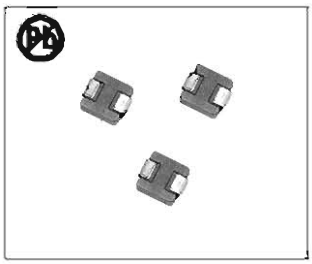
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0650C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 7.4mm x 6.8mm x 5.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

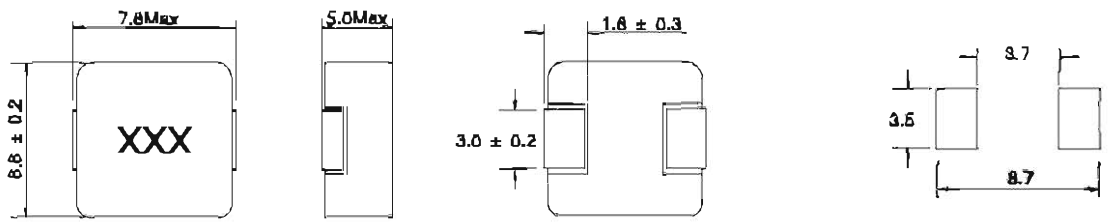
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0650C-R47M	0.47	22.0	30.0	3.20	3.60
LPM0650C-1R0M	1.0	15.0	26.0	6.00	7.50
LPM0650C-2R2M	2.2	11.0	18.0	9.80	12.0
LPM0650C-3R3M	3.3	9.0	17.0	17.5	20.0
LPM0650C-4R7M	4.7	7.0	16.0	28.0	32.0
LPM0650C-5R6M	5.6	7.0	15.0	29.0	33.0
LPM0650C-6R8M	6.8	6.5	13.0	33.5	40.0
LPM0650C-100M	10.0	6.0	12.0	47.0	55.0
LPM0650C-150M	15.0	5.0	10.0	82.0	93.0
LPM0650C-220M	22.0	4.0	7.0	121.0	140.0
LPM0650C-330M	33.0	3.0	6.0	145.0	158.0
LPM0650C-470M	47.0	2.5	4.0	200.0	225.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



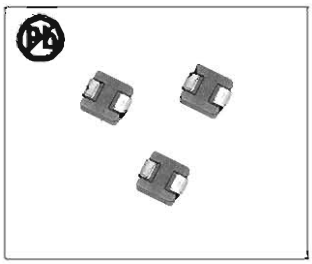
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0830C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 9.2mm x 8.0mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

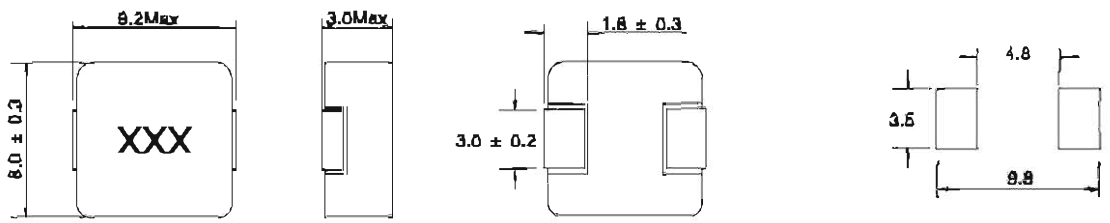
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0830C-R22M	0.22	30.0	55.0	1.50	1.80
LPM0830C-R33M	0.33	25.0	47.0	2.20	2.50
LPM0830C-R47M	0.47	20.0	36.0	3.10	3.30
LPM0830C-R68M	0.68	19.0	32.0	3.30	4.00
LPM0830C-1R0M	1.0	16.0	30.0	6.50	8.00
LPM0830C-1R5M	1.5	14.0	23.0	6.50	8.00
LPM0830C-2R2M	2.2	12.0	18.0	10.5	12.5
LPM0830C-3R3M	3.3	10.0	16.0	19.0	23.0
LPM0830C-4R7M	4.7	9.0	15.0	31.5	38.0
LPM0830C-5R6M	5.6	8.0	13.0	35.0	42.0
LPM0830C-6R8M	6.8	7.0	12.0	46.0	53.0
LPM0830C-8R2M	8.2	6.5	9.5	49.0	65.0
LPM0830C-100M	10.0	6.0	8.0	54.0	85.0
LPM0830C-330M	33.0	3.0	5.0	175.0	195.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
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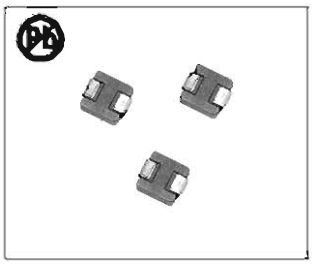
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0840C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 9.2mm x 8.0mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

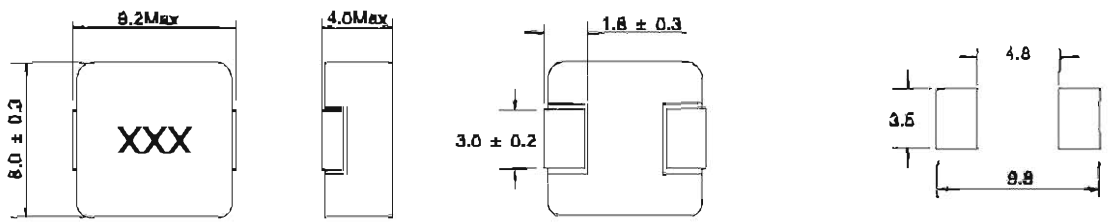
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0840C-R22M	0.22	32.0	60.0	1.60	2.00
LPM0840C-R33M	0.33	30.0	55.0	2.10	2.50
LPM0840C-R47M	0.47	25.0	45.0	2.50	3.00
LPM0840C-R82M	0.82	20.0	30.0	3.00	3.80
LPM0840C-1R0M	1.0	18.0	26.0	4.50	5.50
LPM0840C-1R5M	1.5	15.0	24.0	5.30	6.50
LPM0840C-2R2M	2.2	13.0	22.0	10.1	12.5
LPM0840C-3R3M	3.3	11.0	20.0	16.0	19.0
LPM0840C-8R2M	8.2	8.0	11.0	40.5	48.0
LPM0840C-100M	10.0	6.0	10.0	48.0	55.0
LPM0840C-150M	15.0	5.0	8.0	60.0	68.0
LPM0840C-220M	22.0	4.0	7.0	102.0	110.2
LPM0840C-470M	47.0	3.0	5.5	181.0	205.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
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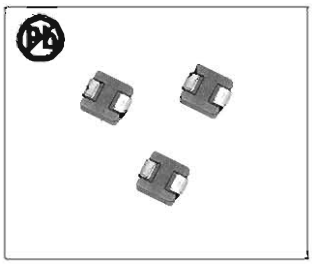
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0850C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 9.2mm x 8.0mm x 5.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

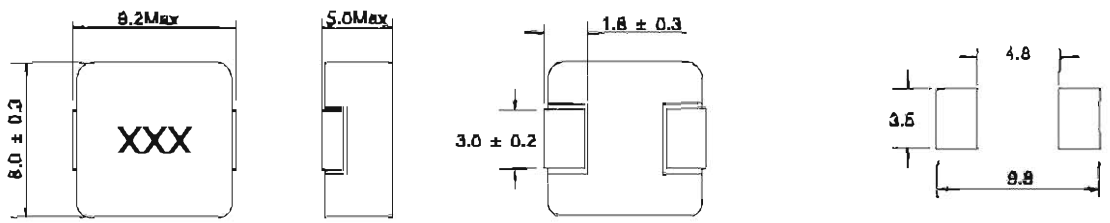
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0850C-R15M	0.15	45.0	80.0	0.55	0.65
LPM0850C-R22M	0.22	35.0	55.0	0.80	1.00
LPM0850C-1R0M	1.0	20.0	30.0	4.70	5.50
LPM0850C-1R5M	1.5	17.0	26.0	6.10	7.00
LPM0850C-2R2M	2.2	15.0	24.0	9.4	12.0
LPM0850C-4R7M	4.7	11.0	22.0	18.0	21.0
LPM0850C-6R8M	6.8	10.0	18.0	26.5	31.0
LPM0850C-100M	10.0	9.0	16.0	41.0	47.0
LPM0850C-220M	22.0	5.0	10.0	81.0	88.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM10100C SERIES

FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile：11.3mm x 10mm x 10mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

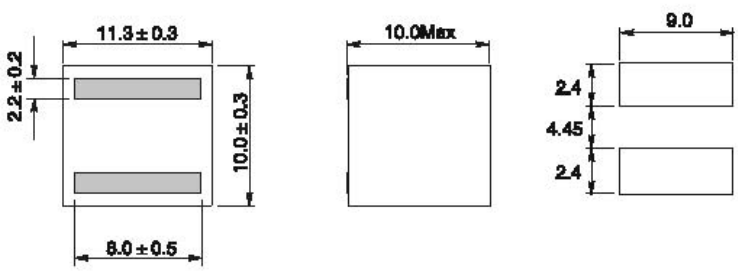
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM10100C-1R0M	1.0	43.5	55.0	1.00	1.10
LPM10100C-1R5M	1.5	40.5	36.6	1.60	1.76
LPM10100C-2R2M	2.2	32.0	34.0	2.55	2.80
LPM10100C-3R3M	3.3	25.0	27.4	3.70	4.10
LPM10100C-4R7M	4.7	24.0	25.4	5.20	5.70
LPM10100C-6R8M	6.8	18.5	21.8	8.1	8.9
LPM10100C-100M	10.0	15.5	17.5	13.4	14.8
LPM10100C-150M	15.0	13.8	15.5	16.9	18.6

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
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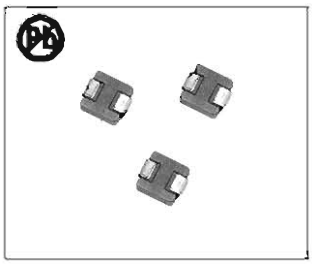
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1020C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 10.5mm x 10.3mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

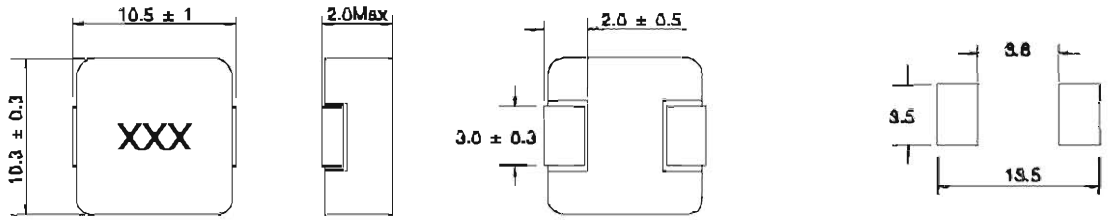
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1020C-R33M	0.33	29.0	38.0	1.80	2.30
LPM1020C-R47M	0.47	23.0	35.0	2.00	2.80
LPM1020C-1R0M	1.0	19.0	23.0	5.50	6.80
LPM1020C-2R2M	2.2	9.0	14.0	13.3	16.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
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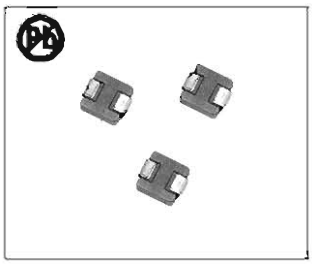
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1030C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low profile: 10.5mm x 10.3mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

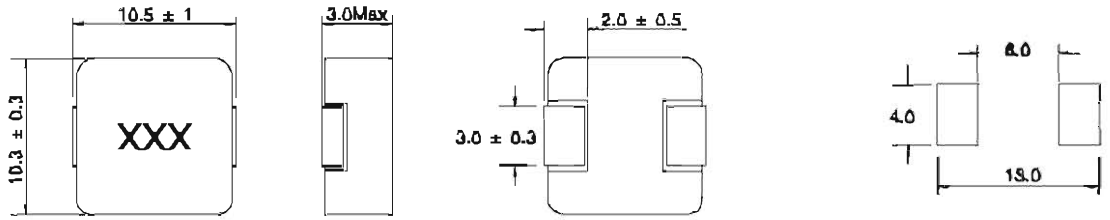
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1020C-R36M	0.36	25.0	55.0	1.30	1.50
LPM1020C-1R0M	1.0	18.0	33.0	6.60	8.00
LPM1020C-1R2M	1.2	17.0	32.0	6.60	8.00
LPM1020C-1R5M	1.5	14.0	26.0	7.80	9.80
LPM1020C-2R2M	2.2	12.0	20.0	8.0	11.0
LPM1020C-3R3M	3.3	9.0	16.0	14.0	17.0
LPM1020C-4R7M	4.7	8.0	15.0	16.5	19.5
LPM1020C-6R8M	6.8	7.0	12.0	32.5	38.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



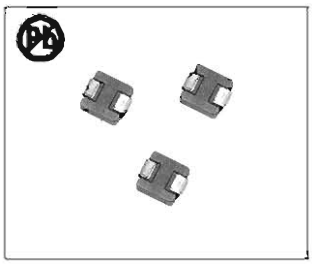
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1040C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

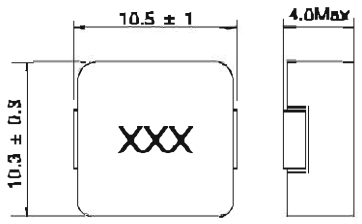
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

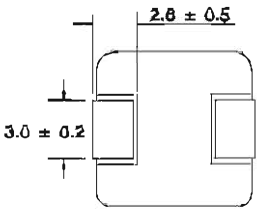
ELECTRICAL CHARACTERISTICS:

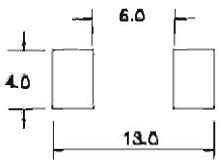
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1040C-R19M	0.19	40.0	100.0	0.79	0.95
LPM1040C-R22M	0.22	36.0	80.0	0.65	0.80
LPM1040C-R33M	0.33	32.0	70.0	1.05	1.30
LPM1040C-R36M	0.36	31.0	65.0	1.10	1.35
LPM1040C-R47M	0.47	30.0	60.0	1.15	1.40
LPM1040C-R56M	0.56	28.0	55.0	1.65	2.00
LPM1040C-R68M	0.68	25.0	50.0	2.20	2.60
LPM1040C-R82M	0.82	24.0	41.0	2.10	2.50
LPM1040C-1R0M	1.0	22.0	40.0	2.15	2.50
LPM1040C-1R2M	1.2	20.0	35.0	2.85	3.50
LPM1040C-1R5M	1.5	18.0	30.0	4.30	5.20
LPM1040C-2R2M	2.2	16.0	28.0	5.30	6.50
LPM1040C-3R3M	3.3	14.0	25.0	10.30	13.00
LPM1040C-4R7M	4.7	12.0	20.0	13.50	16.00
LPM1040C-5R6M	5.6	10.0	18.0	15.50	18.50
LPM1040C-6R8M	6.8	9.0	15.0	21.50	26.00
LPM1040C-8R2M	8.2	8.0	14.0	30.00	36.00
LPM1040C-100M	10	7.0	13.0	32.00	38.00
LPM1040C-220M	22	6.0	9.0	57.00	65.00
LPM1040C-330M	33	4.5	7.5	105.00	118.00
LPM1040C-470M	47	3.6	5.5	129.00	145.00

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)







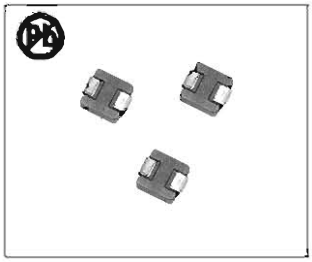
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1050C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

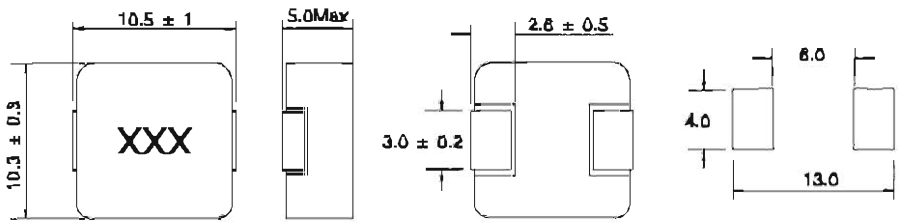
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1040C-R36M	0.36	33.0	80.0	0.78	1.00
LPM1040C-R47M	0.47	32.0	70.0	1.10	1.40
LPM1040C-R56M	0.56	30.0	55.0	1.30	1.60
LPM1040C-R68M	0.68	28.0	50.0	1.30	1.60
LPM1040C-1R0M	1.00	24.0	45.0	2.10	2.50
LPM1040C-1R5M	1.50	20.0	42.0	2.96	3.60
LPM1040C-2R2M	2.20	18.0	40.0	6.0	7.10
LPM1040C-3R3M	3.30	16.0	30.0	7.8	10.0
LPM1040C-4R7M	4.70	14.0	23.0	9.8	12.0
LPM1040C-5R6M	5.60	12.0	20.0	11.5	14.0
LPM1040C-6R8M	6.80	11.0	19.0	14.8	18.0
LPM1040C-8R2M	8.20	10.0	18.0	23.0	27.0
LPM1040C-100M	10.00	9.0	16.0	24.5	28.0
LPM1040C-150M	15.00	7.0	11.0	45.0	53.0
LPM1040C-220M	22.00	6.0	10.0	45.0	53.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



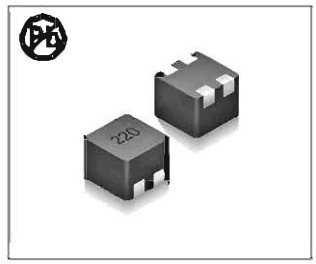
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1050D SERIES



FEATURES:

- Alloy iron powder Molded structure
- Low profile: 11.5mm x 10.2mm x 5.0mm
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

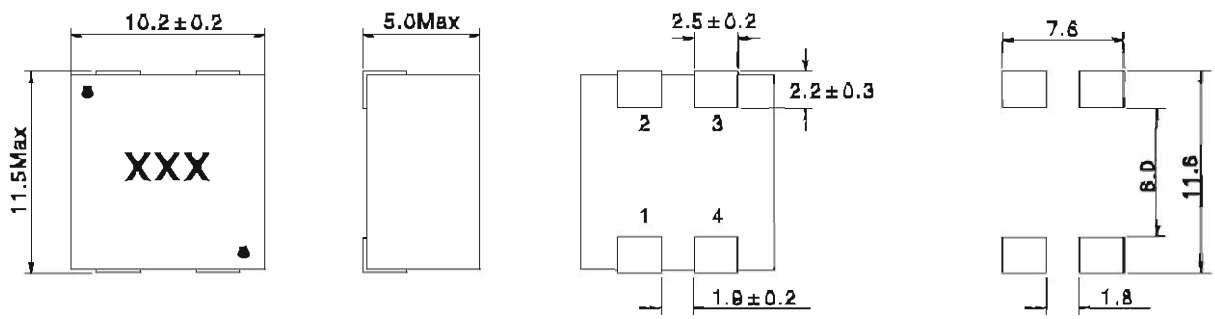
- Isolated converters, such as flyback converters
- Step-down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

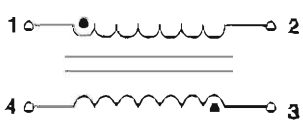
Part Number	Inductance L0(μH) ±20% @0Adc (1-2)=(3-4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1-2)=(3-4)	DCR Max. (mΩ). (1-2)=(3-4)
LPM1050D-3R3M	3.3	7.0	32.0	18.3	22.0
LPM1050D-4R7M	4.7	6.0	30.0	27.0	32.0
LPM1050D-5R6M	5.6	5.0	23.0	38.5	45.0
LPM1050D-150M	15.0	3.0	13.0	82.0	95.0
LPM1050D-220M	22.0	2.5	10.0	102.0	115.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1060C SERIES

FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile：11.3mm x 10mm x 6.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

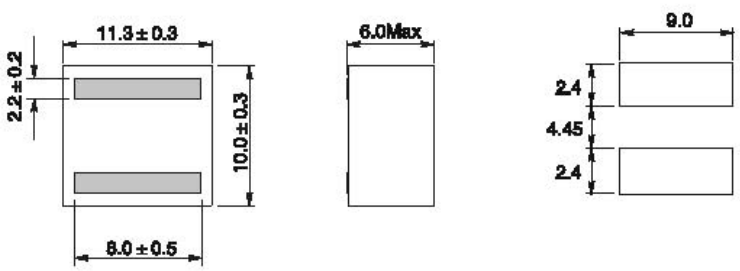
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1060C-1R0M	1.0	26.5	43.0	2.4	2.70
LPM1060C-1R5M	1.5	24.4	36.0	3.0	3.30
LPM1060C-2R2M	2.2	20.0	32.0	4.5	4.95
LPM1060C-3R3M	3.3	16.8	26.0	7.2	7.92
LPM1060C-4R7M	4.7	14.0	25.0	9.8	10.72

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



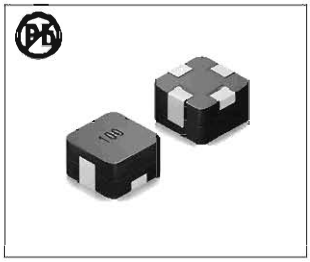
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1080D SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 11.2mm x 11.2mm x 8.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

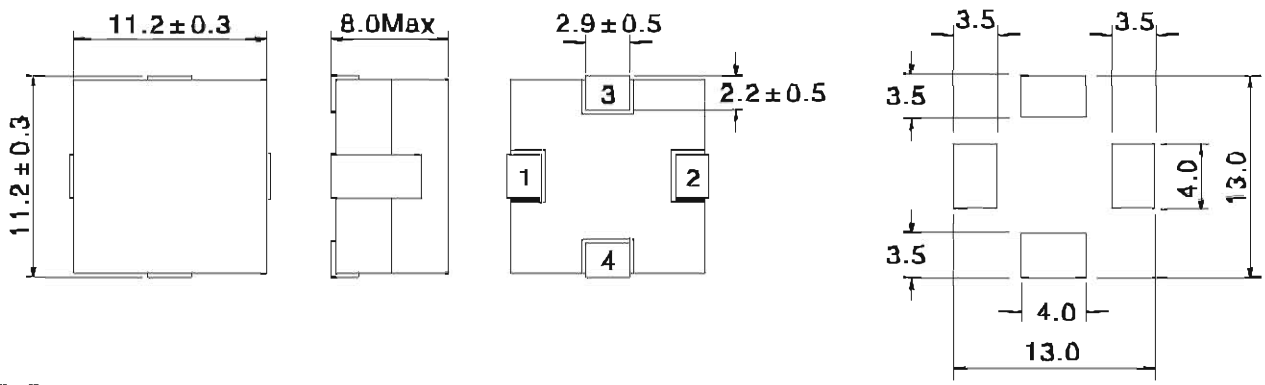
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

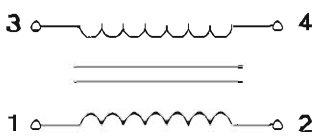
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1080D-8R2M	8.2	14.0	6.0	32.8	35.2
LPM1080D-100M	10.0	13.0	5.5	44.9	49.5
LPM1080D-150M	15.0	12.0	4.5	66.2	71.5
LPM1080D-220M	22.0	9.0	4.0	106.3	115.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

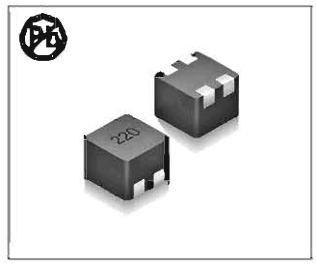


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1090D SERIES



FEATURES:

- Alloy iron powder Molded structure
- Low profile: 11.5mm x 10.2mm x 9.0mm
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

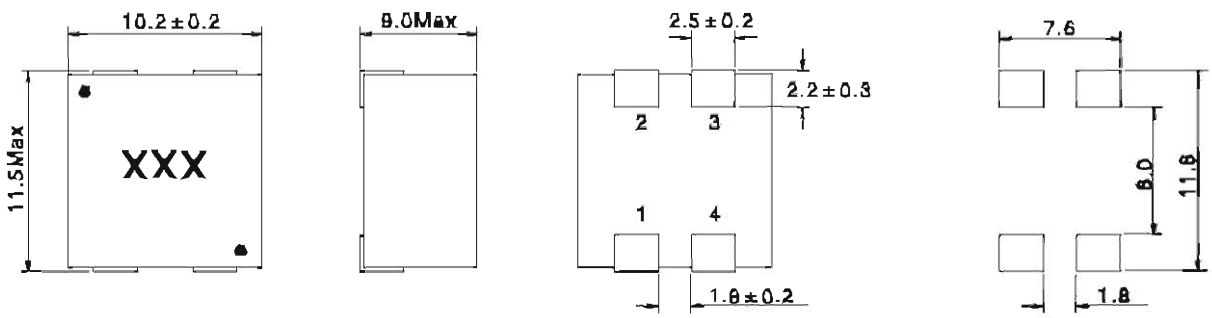
- Isolated converters, such as flyback converters
- Step-down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

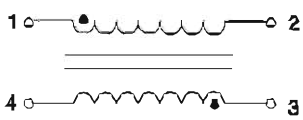
Part Number	Inductance L0(μH) ±20% @0Adc (1-2)=(3-4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1-2)=(3-4)	DCR Max. (mΩ). (1-2)=(3-4)
LPM1090D-1R0M	1.0	17.0	43.5	4.6	5.6
LPM1090D-1R5M	1.5	12.5	34.0	8.7	9.4
LPM1090D-2R2M	2.2	11.5	29.5	10.6	12.5
LPM1090D-3R3M	3.3	7.5	28.2	23.3	26.0
LPM1090D-4R7M	4.7	7.0	24.2	36.2	40.0
LPM1090D-6R8M	6.8	6.5	21.2	46.1	51.5
LPM1090D-8R2M	8.2	6.0	18.5	56.3	63.0
LPM1090D-100M	10.0	5.5	17.0	62.5	69.0
LPM1090D-150M	15.0	5.0	22.0	73.0	87.0
LPM1090D-220M	22.0	4.0	18.0	91.0	106.0
LPM1090D-330M	33.0	3.5	10.0	121.5	145.0
LPM1090D-470M	47.0	2.3	6.0	218.0	240.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

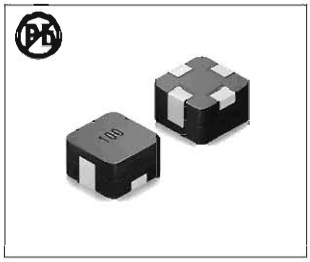


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1213D SERIES



FEATURES:

- High performance (lead) realized by Carbonyl Iron powder
- Low profile: 13.8mm x 13.8mm x 13.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

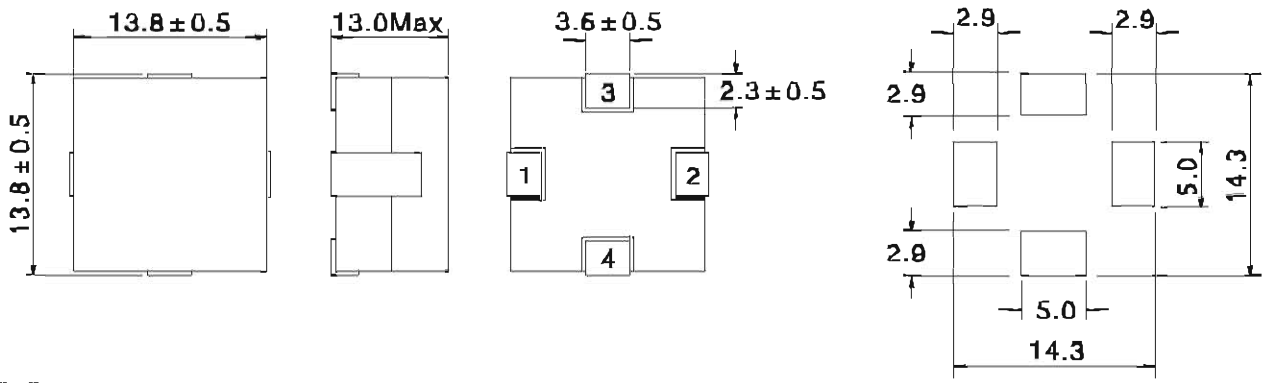
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

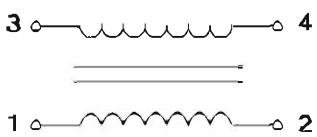
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1213D-8R2M	8.2	25.0	10.0	16.3	17.6
LPM1213D-100M	10.0	21.0	9.0	20.8	22.55
LPM1213D-150M	15.0	16.0	7.0	34.2	36.85
LPM1213D-220M	22.0	15.0	5.5	51.2	55.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

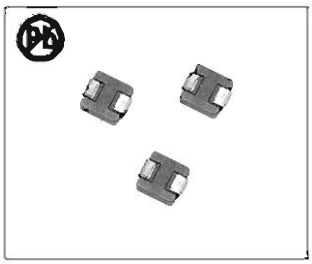


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1235C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

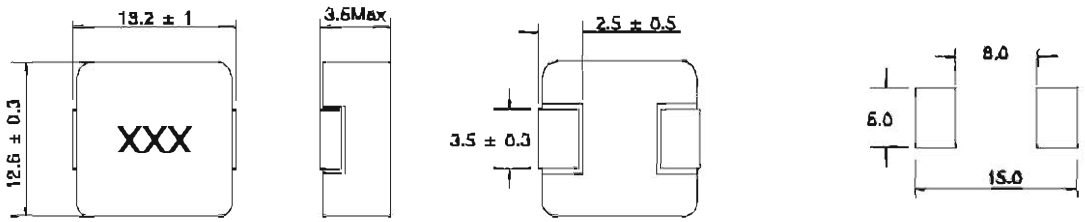
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1235C-R10M	0.10	48.0	90.0	0.78	0.98
LPM1235C-R15M	0.15	46.0	80.0	0.65	0.85
LPM1235C-R22M	0.22	44.0	75.0	0.65	0.85
LPM1235C-R33M	0.33	35.0	70.0	1.10	1.40
LPM1235C-R47M	0.47	33.0	52.0	1.10	1.40
LPM1235C-R68M	0.68	28.0	52.0	2.10	2.50
LPM1235C-R82M	0.82	23.0	48.0	2.50	3.50
LPM1235C-1R0M	1.00	20.0	43.0	2.60	3.50
LPM1235C-1R5M	1.50	19.0	40.0	4.70	5.50
LPM1235C-2R2M	2.20	16.0	32.0	7.60	9.00
LPM1235C-3R3M	3.30	13.0	28.0	11.0	13.5
LPM1235C-4R7M	4.70	12.5	22.0	13.0	15.0
LPM1235C-5R6M	5.60	12.0	20.0	19.2	23.0
LPM1235C-6R8M	6.80	11.0	16.0	20.0	25.0
LPM1235C-8R2M	8.20	8.5	15.0	28.0	32.0
LPM1235C-100M	10.00	7.0	14.0	29.5	34.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



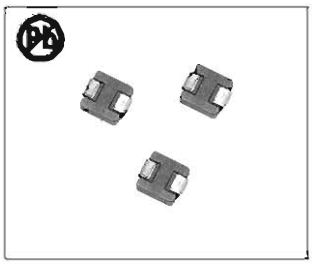
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1250C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

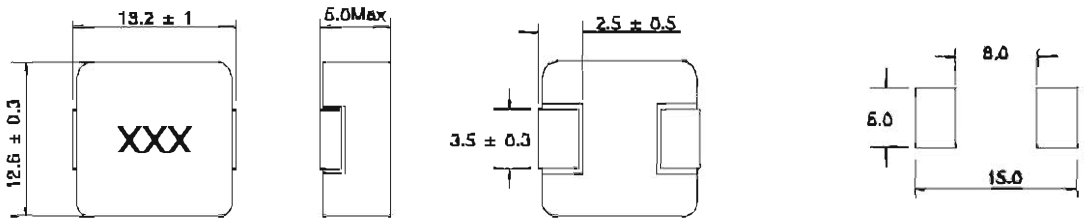
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1250C-R10M	0.10	50.0	90.0	0.28	0.40
LPM1250C-R33M	0.33	42.0	85.0	0.75	1.10
LPM1250C-R36M	0.36	41.0	80.0	0.82	1.10
LPM1250C-R47M	0.47	40.0	75.0	0.90	1.20
LPM1250C-R68M	0.68	35.0	65.0	1.00	1.30
LPM1250C-R82M	0.82	32.0	60.0	1.70	2.20
LPM1250C-1R0M	1.0	29.0	55.0	2.10	2.50
LPM1250C-1R5M	1.5	25.0	50.0	2.70	3.50
LPM1250C-2R2M	2.2	20.0	40.0	4.30	5.50
LPM1250C-3R3M	3.3	16.0	35.0	7.2	9.0
LPM1250C-4R7M	4.7	14.0	33.0	10.4	13.0
LPM1250C-6R8M	6.8	12.0	25.0	15.0	18.0
LPM1250C-100M	10.0	10.0	18.0	25.5	30.0
LPM1250C-220M	22.0	7.0	11.0	45.0	53.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



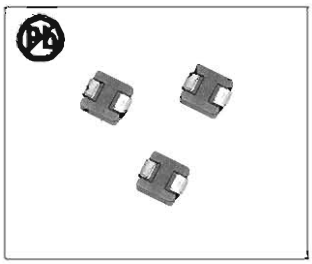
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1260C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

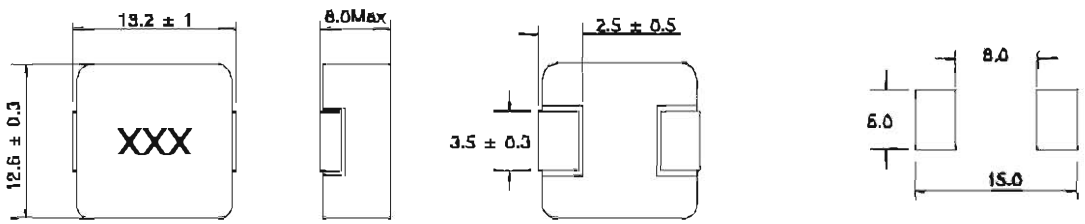
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1260C-R33M	0.33	45.0	90.0	0.75	1.00
LPM1260C-R36M	0.36	42.0	85.0	1.00	1.30
LPM1260C-R68M	0.68	36.0	70.0	1.10	1.40
LPM1260C-R82M	0.82	33.0	65.0	2.00	2.50
LPM1260C-1R0M	1.0	32.0	60.0	2.10	2.60
LPM1260C-1R5M	1.5	27.0	52.0	2.60	3.30
LPM1260C-2R2M	2.2	23.0	46.0	4.7	6.0
LPM1260C-3R3M	3.3	18.0	43.0	6.2	8.0
LPM1260C-4R7M	4.7	16.0	35.0	7.5	9.5
LPM1260C-6R8M	6.8	13.0	26.0	12.0	15.0
LPM1260C-100M	10.0	11.0	20.0	15.8	18.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



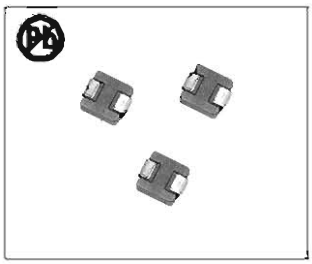
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1265C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

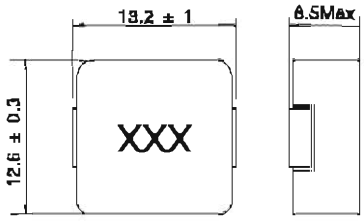
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

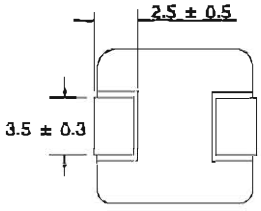
ELECTRICAL CHARACTERISTICS:

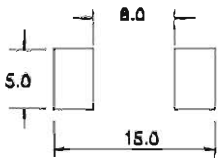
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1265C-R15M	0.15	60.0	120.0	0.37	0.50
LPM1265C-R22M	0.22	50.0	110.0	0.50	0.60
LPM1265C-R33M	0.33	48.0	100.0	0.60	0.80
LPM1265C-R47M	0.47	45.0	90.0	0.80	1.10
LPM1265C-R56M	0.56	40.0	80.0	1.00	1.30
LPM1265C-R68M	0.68	36.0	72.0	1.40	1.80
LPM1265C-1R0M	1.0	32.0	60.0	1.7	2.2
LPM1265C-1R5M	1.5	26.0	55.0	2.5	3.2
LPM1265C-2R2M	2.2	23.0	50.0	4.1	5.0
LPM1265C-3R3M	3.3	20.0	40.0	5.3	6.5
LPM1265C-4R7M	4.7	18.0	38.0	7.6	9.5
LPM1265C-5R6M	5.6	15.0	34.0	9.5	11.5
LPM1265C-6R8M	6.8	13.0	30.0	11.4	14.0
LPM1265C-100M	10.0	12.0	21.0	12.5	15.0
LPM1265C-150M	15.0	10.0	19.0	27.5	33.0
LPM1265C-220M	22.0	9.0	16.0	35.5	42.0
LPM1265C-330M	33.0	8.0	13.0	47.0	55.0
LPM1265C-470M	47.0	6.0	12.0	90.0	105.0
LPM1265C-560M	56.0	5.5	10.0	100.0	120.0
LPM1265C-680M	68.0	5.0	8.0	103.0	120.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)







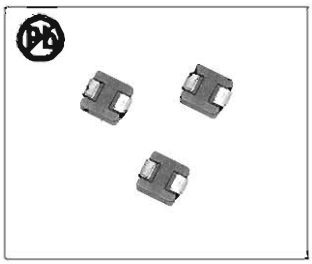
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1280C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

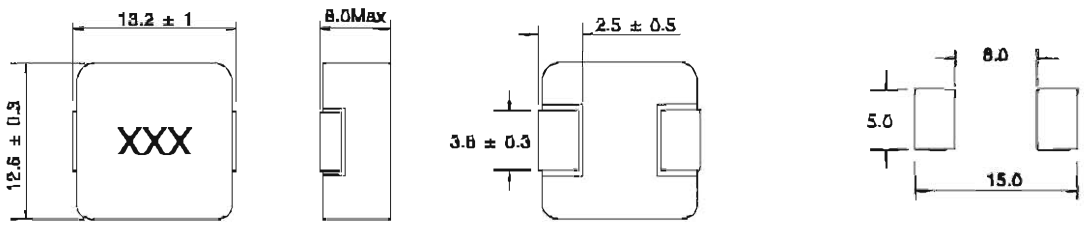
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1280C-1R0M	1.0	35.0	38.0	1.05	1.2
LPM1280C-1R5M	1.5	30.0	35.0	1.35	1.5
LPM1280C-2R2M	2.2	26.0	30.0	1.90	2.2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



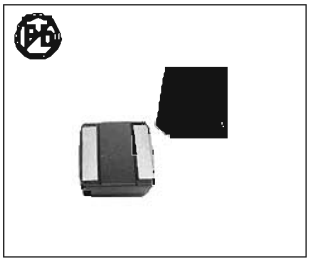
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1770C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 18.0mm x17.2mm x 7.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

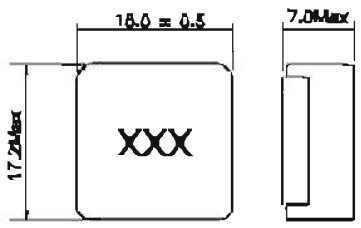
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

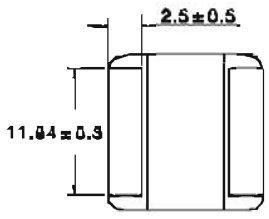
ELECTRICAL CHARACTERISTICS:

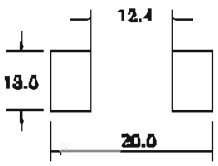
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1770C-1R0M	1.0	50.0	80.0	1.4	1.7
LPM1770C-1R5M	1.5	45.0	70.0	1.7	2.1
LPM1770C-2R2M	2.2	40.0	62.0	2.4	2.7
LPM1770C-3R3M	3.3	35.0	50.0	3.5	4.2
LPM1770C-4R7M	4.7	30.0	43.0	3.9	5.0
LPM1770C-5R6M	5.6	25.0	40.0	4.4	5.5
LPM1770C-6R8M	6.8	20.0	35.0	6.5	8.0
LPM1770C-8R2M	8.2	18.0	31.0	8.5	9.5
LPM1770C-100M	10.0	16.0	25.0	9.7	11.0
LPM1770C-150M	15.0	14.0	20.0	18.0	23.0
LPM1770C-220M	22.0	12.0	20.0	23.5	26.5
LPM1770C-330M	33.0	10.0	17.0	27.0	35.0
LPM1770C-470M	47.0	9.0	11.0	40.0	48.0
LPM1770C-560M	56.0	8.0	13.0	55.0	62.0
LPM1770C-680M	68.0	7.5	12.0	67.0	80.0
LPM1770C-101M	100.0	7.0	12.0	102.0	115.0
LPM1770C-151M	150.0	4.0	7.0	135.0	155.0
LPM1770C-351M	350.0	3.0	6.0	375.0	405.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)







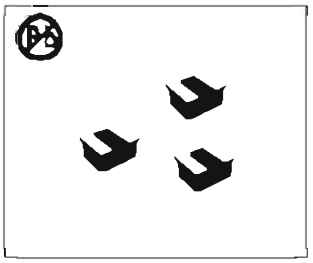
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2010C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 2.0mm x 1.8mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

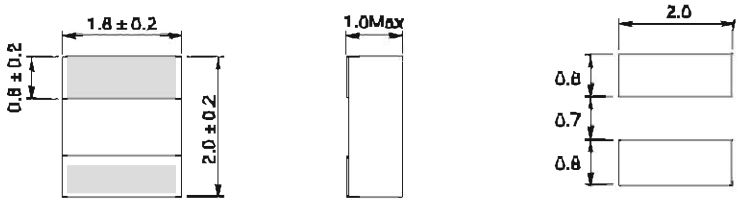
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2010C-R24M	0.24	6.3	7.2	16.5	20.0
LPM2010C-R33M	0.33	3.8	5.5	42.0	48.0
LPM2010C-R47M	0.47	4.5	7.0	30.0	35.0
LPM2010C-R56M	0.56	3.3	4.6	51.0	59.0
LPM2010C-R68M	0.68	4.0	4.5	46.0	52.0
LPM2010C-1R0M	1.00	3.0	3.5	65.0	76.0
LPM2010C-1R5M	1.50	2.1	3.0	105.0	120.0
LPM2010C-2R2M	2.20	1.6	2.4	160.0	204.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



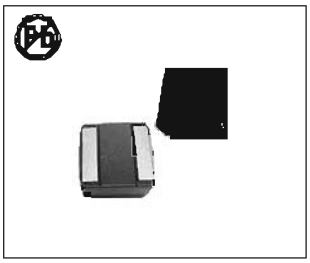
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2213C SERIES



FEATURES:

- High performance (last) realized by Carbonyl Iron powder
- Low profile: 22.5mm x22.0mm x 13.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

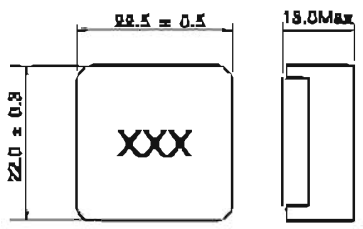
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

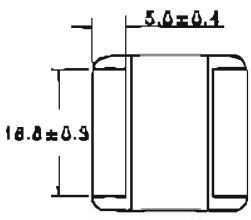
ELECTRICAL CHARACTERISTICS:

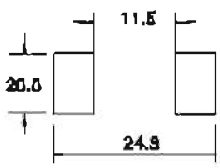
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2213C-R47M	0.47	80.0	100.0	0.58	0.67
LPM2213C-1R0M	1.0	69.0	71.0	0.85	0.98
LPM2213C-1R5M	1.5	65.0	53.0	0.90	1.20
LPM2213C-2R2M	2.2	59.0	49.0	1.10	1.25
LPM2213C-3R3M	3.3	48.0	41.0	1.40	1.60
LPM2213C-4R7M	4.7	47.0	37.0	1.70	1.84
LPM2213C-5R6M	5.6	40.0	36.5	2.00	2.50
LPM2213C-6R8M	6.8	36.0	36.0	2.90	3.09
LPM2213C-100M	10.0	28.0	28.0	3.80	4.14
LPM2213C-150M	15.0	23.5	24.0	5.50	6.11
LPM2213C-220M	22.0	17.5	18.0	9.00	10.80
LPM2213C-330M	33.0	15.5	15.5	14.50	15.40
LPM2213C-470M	47.0	13.5	10.0	16.30	17.70
LPM2213C-560M	56.0	13.0	11.0	23.00	26.00
LPM2213C-680M	68.0	12.5	13.0	31.50	36.00
LPM2213C-750M	75.0	12.0	12.0	30.00	32.35
LPM2213C-820M	82.0	10.2	9.0	31.50	34.20
LPM2213C-101M	100.0	9.1	7.0	37.60	39.40
LPM2213C-151M	150.0	6.0	6A Drop 30%	68.00	80.00
LPM2213C-201M	200.0	5.0	7A Drop 30%	92.00	105.00
LPM2213C-221M	220.0	4.5	6A Drop 30%	108.00	125.00
LPM2213C-401M	400.0	4.0	6A Drop 30%	208.00	230.00

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)







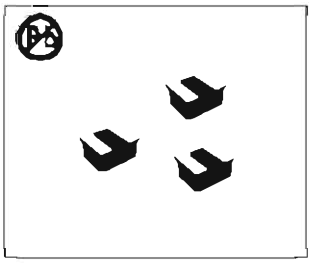
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2510C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 2.5mm x 2.0mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

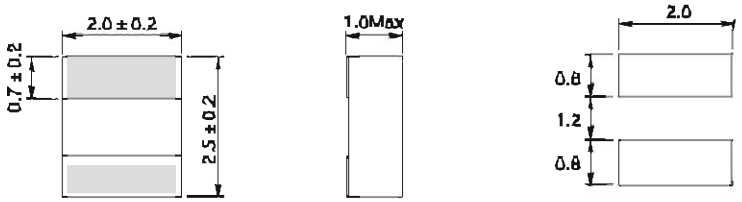
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2510C-1R0M	1.0	3.5	4.5	45.0	52.0
LPM2510C-2R2M	2.2	2.3	3.0	102.0	118.0
LPM2510C-3R3M	3.3	1.8	2.3	125.0	142.0
LPM2510C-4R7M	4.7	1.5	1.8	204.0	235.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
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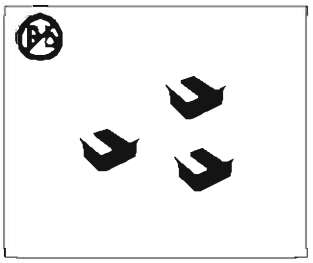
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2512C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 2.5mm x 2.0mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

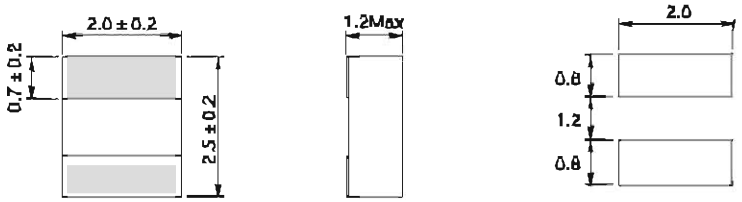
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2512C-R22M	0.22	8.0	10.0	10.0	13.0
LPM2512C-R33M	0.33	6.5	9.0	13.8	20.0
LPM2512C-R47M	0.47	5.5	8.0	21.0	26.0
LPM2512C-R68M	0.68	5.2	6.5	29.5	35.0
LPM2512C-1R0M	1.0	5.0	5.5	30.0	35.0
LPM2512C-1R5M	1.5	3.2	5.0	62.0	70.0
LPM2512C-2R2M	2.2	2.6	3.5	85.0	92.0
LPM2512C-3R3M	3.3	2.0	3.0	123.0	140.0
LPM2512C-4R7M	4.7	1.8	2.5	175.0	195.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



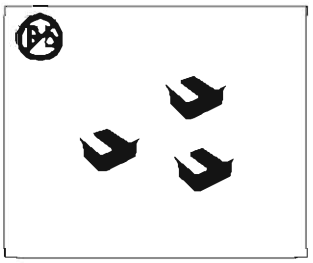
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3210C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 3.2mm x 2.5mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

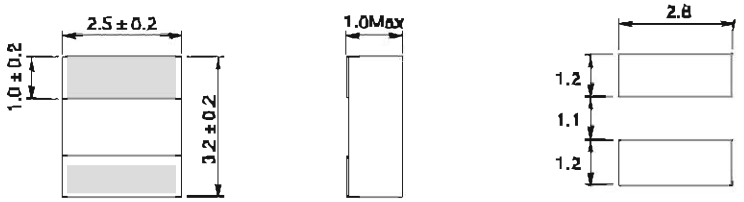
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3210C-1R0M	1.0	4.0	6.0	40.0	48.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



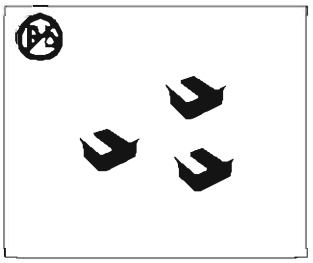
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3212C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 3.2mm x 2.5mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

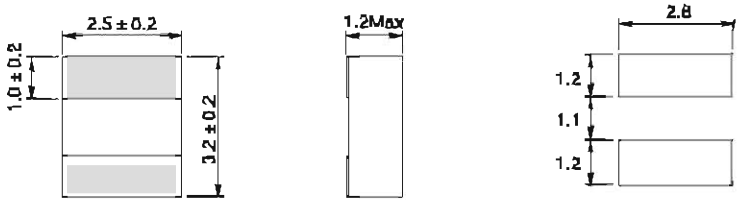
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3212C-4R7M	4.7	2.0	3.0	169.0	182.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



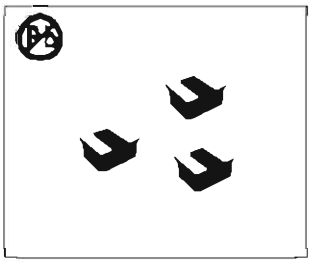
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3215C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 3.2mm x 2.5mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

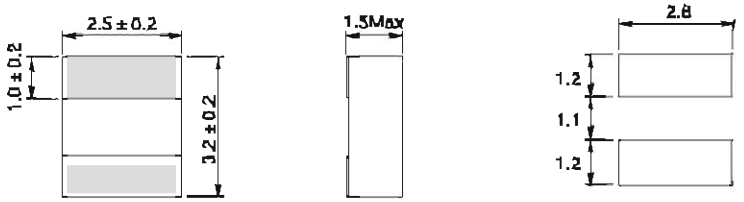
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3215C-R22M	0.22	13.0	11.0	7.0	7.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



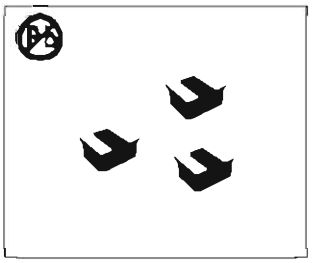
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3220C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 3.2mm x 2.5mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

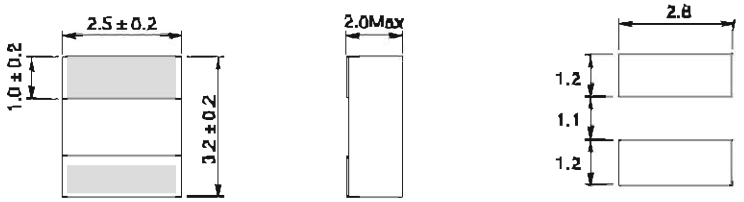
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3220C-1R0M	1.00	5.4	10.0	17.8	22.0
LPM3220C-2R2M	2.20	4.0	7.0	42.0	50.0
LPM3220C-3R3M	3.30	3.0	5.5	58.0	65.0
LPM3220C-4R7M	4.70	2.8	4.5	98.0	120.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



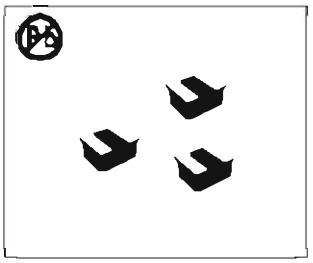
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4010C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

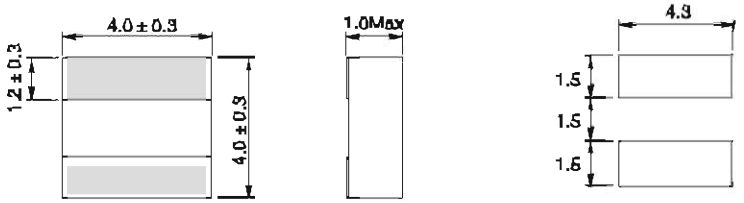
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4010C-1R0M	1.0	3.5	7.0	36.0	46.0
LPM4010C-2R2M	2.2	3.2	4.5	72.0	85.0
LPM4010C-3R3M	3.3	2.8	4.0	105.0	120.0
LPM4010C-4R7M	4.7	2.5	3.0	138.0	160.0
LPM4010C-6R8M	6.8	2.0	2.5	165.0	185.0
LPM4010C-100M	10.0	1.5	2.0	290.0	330.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



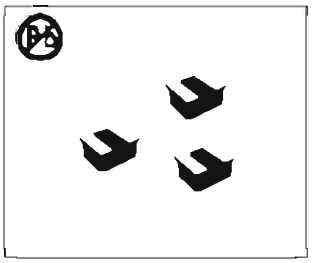
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4012C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

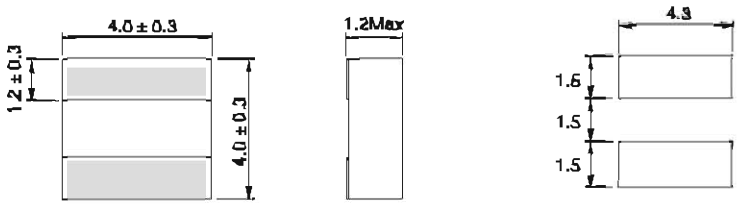
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4012C-R25M	0.25	8.0	11.0	8.0	10.0
LPM4012C-R47M	0.47	7.0	9.5	20.0	25.0
LPM4012C-R68M	0.68	6.0	8.0	25.0	30.0
LPM4012C-1R0M	1.0	5.0	7.0	27.0	33.0
LPM4012C-1R5M	1.5	4.2	6.5	43.0	55.0
LPM4012C-2R2M	2.2	4.0	6.0	52.0	63.0
LPM4012C-3R3M	3.3	3.5	5.0	78.0	90.0
LPM4012C-4R7M	4.7	3.0	4.5	98.0	110.0
LPM4012C-5R6M	5.6	2.5	4.0	121.0	140.0
LPM4012C-6R8M	6.8	2.3	3.5	140.0	160.0
LPM4012C-100M	10.0	1.8	2.5	210.0	240.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



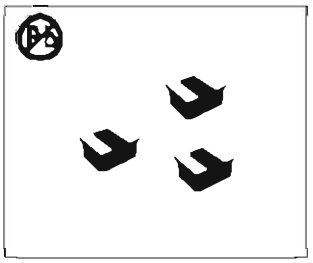
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4015C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

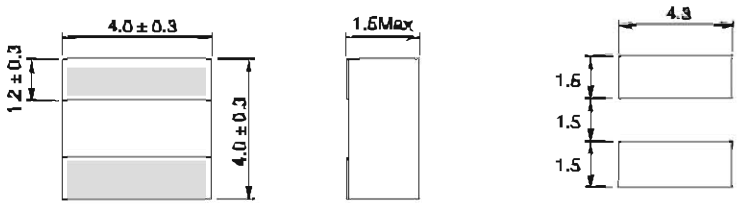
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4015C-R47M	0.47	8.2	10.0	12.0	15.0
LPM4015C-2R2M	2.2	6.0	6.5	36.0	39.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



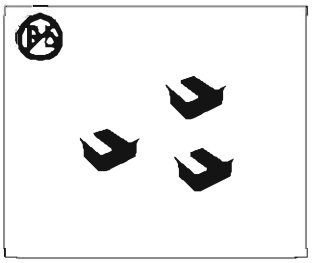
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4020C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

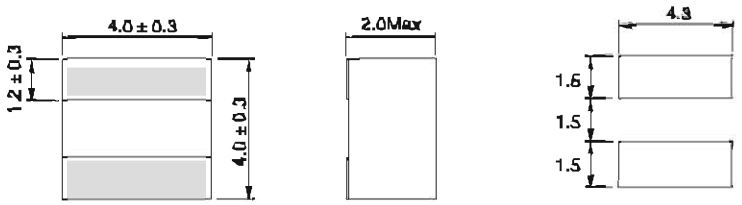
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4020C-R33M	0.33	18.0	20.0	6.00	8.00
LPM4020C-R47M	0.47	12.0	18.0	7.60	9.00
LPM4020C-R68M	0.68	10.0	15.0	9.8	13.0
LPM4020C-1R0M	1.0	8.0	12.0	14.0	17.0
LPM4020C-1R5M	1.5	6.0	10.0	16.0	20.0
LPM4020C-2R2M	2.2	5.0	8.0	27.0	34.0
LPM4020C-3R3M	3.3	4.5	6.0	36.0	43.0
LPM4020C-4R7M	4.7	4.0	5.5	52.0	63.0
LPM4020C-100M	10.0	2.6	4.0	110.0	125.0
LPM4020C-220M	22.0	1.7	2.8	258.0	280.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



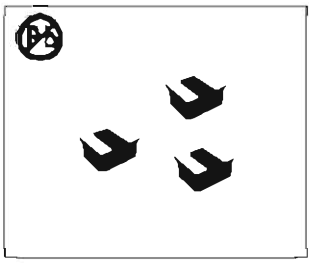
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4030C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

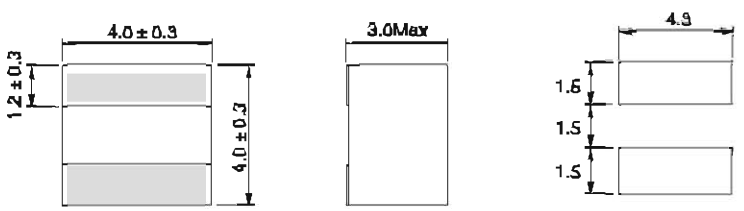
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4030C-R15M	0.15	28.0	24.0	1.6	1.9
LPM4030C-R30M	0.30	24.0	17.0	2.5	2.9
LPM4030C-R47M	0.47	21.2	14.2	3.4	3.9
LPM4030C-R68M	0.68	14.0	12.0	4.2	4.8
LPM4030C-1R0M	1.0	13.0	10.3	6.5	7.2
LPM4030C-1R5M	1.5	10.2	8.8	9.5	10.5
LPM4030C-2R2M	2.2	8.7	7.0	13.5	15.0
LPM4030C-3R3M	3.3	7.5	5.3	19.9	21.9
LPM4030C-4R7M	4.7	6.6	4.4	28.5	31.5
LPM4030C-6R8M	6.8	4.7	3.65	43.5	47.9
LPM4030C-8R2M	8.2	4.2	3.45	50.6	55.7
LPM4030C-100M	10.0	3.9	3.1	63.0	69.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



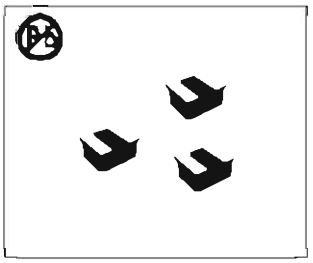
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4040C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

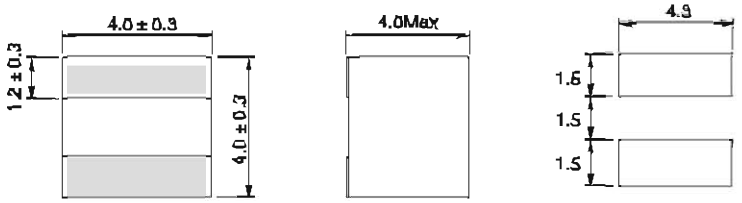
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4040C-R15M	0.15	30.2	21.0	1.5	1.8
LPM4040C-R30M	0.30	24.6	15.3	2.2	2.6
LPM4040C-R47M	0.47	20.8	12.2	2.8	3.2
LPM4040C-R68M	0.68	18.3	10.5	3.5	4.0
LPM4040C-1R0M	1.00	14.8	9.3	4.8	5.6
LPM4040C-1R5M	1.50	12.5	7.9	6.6	7.9
LPM4040C-2R2M	2.20	11.0	6.4	10.1	11.5
LPM4040C-3R3M	3.30	8.7	5.5	15.0	16.6
LPM4040C-4R7M	4.70	7.1	4.4	22.2	24.5
LPM4040C-6R8M	6.80	5.6	4.0	31.5	34.7
LPM4040C-100M	10.00	5.0	2.8	45.8	50.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



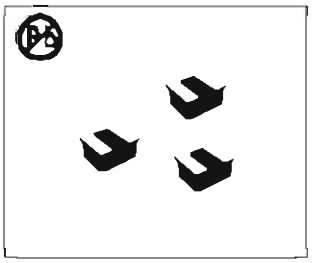
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM5020C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 5.2mm x 5.4mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

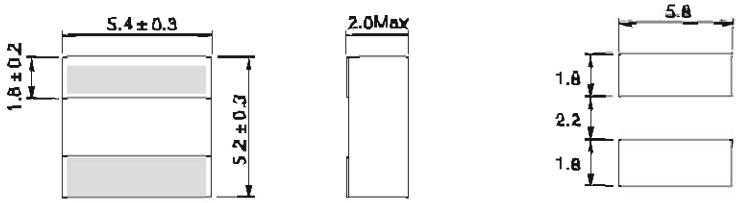
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM5020C-R15M	0.15	29.4	27.0	1.8	2.1
LPM5020C-R33M	0.33	24.4	18.8	2.7	3.2
LPM5020C-R47M	0.47	22.1	15.7	3.7	4.3
LPM5020C-R68M	0.68	17.6	14.0	5.3	6.1
LPM5020C-1R0M	1.0	15.0	11.4	7.5	8.7
LPM5020C-1R5M	1.5	12.8	8.9	11.4	13.2
LPM5020C-2R2M	2.2	10.7	7.6	16.3	18.8
LPM5020C-3R3M	3.3	9.4	6.5	23.4	27.0
LPM5020C-4R7M	4.7	7.9	5.3	36.0	41.5
LPM5020C-6R8M	6.8	4.9	4.5	55.0	63.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



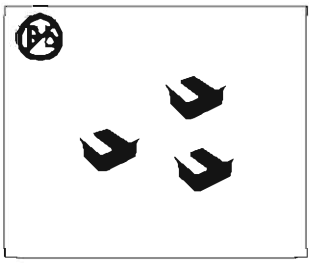
Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM5030C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 5.2mm x 5.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

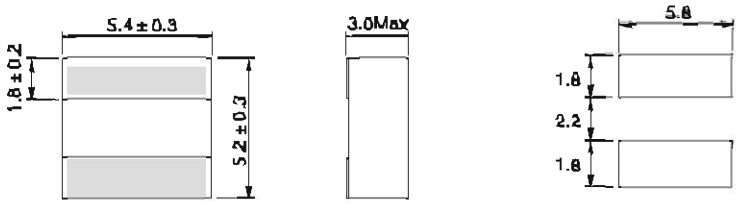
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM5030C-R15M	0.15	32.0	30.0	1.3	1.6
LPM5030C-R33M	0.33	30.6	24.5	1.8	2.2
LPM5030C-R47M	0.47	25.0	20.5	2.5	3.0
LPM5030C-R68M	0.68	21.2	17.5	3.3	4.0
LPM5030C-1R0M	1.0	17.8	14.0	4.8	5.8
LPM5030C-1R5M	1.5	15.4	12.2	6.6	7.9
LPM5030C-2R2M	2.2	12.9	9.4	9.2	10.6
LPM5030C-3R3M	3.3	10.0	8.4	13.3	14.9
LPM5030C-4R7M	4.7	8.5	6.7	21.9	24.5
LPM5030C-6R8M	6.8	7.3	5.5	28.6	32.1
LPM5030C-100M	10.0	5.7	4.5	43.0	48.4

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM6030C SERIES

FEATURES:

- High performance (lost) realized by Carbonyl Iron powder
- Low profile : 6.0mm x 6.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

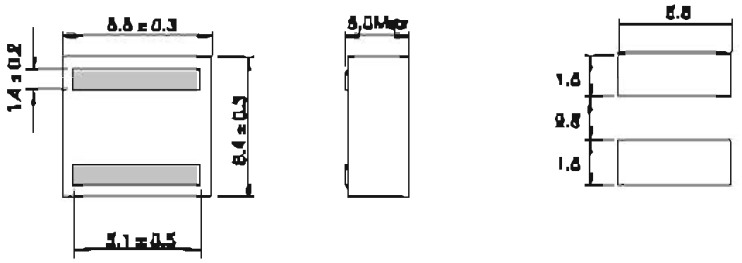
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM6030C-R15M	0.15	55.0	43.0	1.0	1.2
LPM6030C-R22M	0.22	52.0	39.0	1.2	1.5
LPM6030C-R36M	0.36	28.0	29.0	2.0	2.4
LPM6030C-R47M	0.47	25.0	25.5	2.2	2.7
LPM6030C-R68M	0.68	22.5	22.0	2.9	3.5
LPM6030C-1R0M	1.0	18.1	17.7	4.2	4.9
LPM6030C-1R5M	1.5	15.0	14.5	6.2	7.3
LPM6030C-2R2M	2.2	12.0	12.2	8.7	10.3
LPM6030C-3R3M	3.3	10.5	10.4	13.1	15.4
LPM6030C-4R7M	4.7	10.0	8.6	17.5	20.0
LPM6030C-6R8M	6.8	8.2	7.3	25.1	29.5
LPM6030C-100M	10.0	7.0	6.2	35.0	44.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM6060C SERIES

FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile：6.6mm x 6.4mm x 6.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

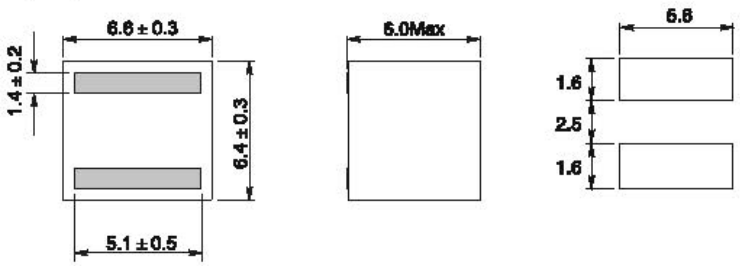
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

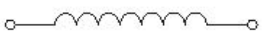
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM6060C-R22M	0.22	29.0	36.0	1.1	1.3
LPM6060C-R47M	0.47	26.0	29.5	1.5	1.8
LPM6060C-R68M	0.68	22.7	26.5	2.0	2.3
LPM6060C-1R0M	1.0	22.0	23.0	2.5	2.9
LPM6060C-1R5M	1.5	20.2	18.3	3.3	3.8
LPM6060C-2R2M	2.2	17.2	16.0	4.3	4.8
LPM6060C-3R3M	3.3	16.6	13.4	5.9	6.5
LPM6030C-4R7M	4.7	13.5	10.2	9.1	10.1
LPM6060C-6R8M	6.8	11.5	8.9	12.7	14.0
LPM6060C-100M	10.0	9.1	7.3	18.5	20.4
LPM6060C-150M	15.0	7.4	5.8	28.2	31.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS2512 SERIES

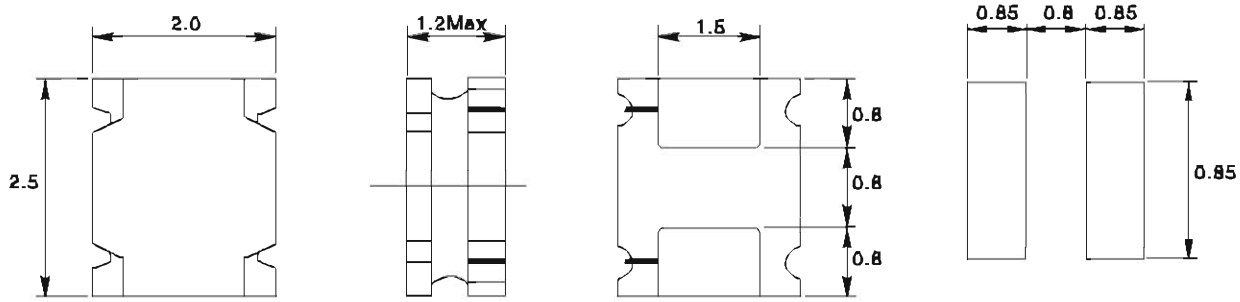
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 2.0x2.5mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS2512-R47N	0.47	± 30	100	0.05	0.042	3.6	4.03	2.27
LPS2512-R68N	0.68	± 30	100	0.088	0.073	3.06	3.43	1.79
LPS2512-1R0N	1.0	± 30	100	0.102	0.085	2.68	3.00	1.58
LPS2512-1R2N	1.2	± 30	100	0.119	0.099	2.38	2.67	1.46
LPS2512-1R5M	1.5	± 20	100	0.136	0.113	2.24	2.51	1.40
LPS2512-2R2M	2.2	± 20	100	0.198	0.165	1.85	2.07	1.15
LPS2512-2R7M	2.7	± 20	100	0.222	0.285	1.71	1.92	1.09
LPS2512-3R3M	3.3	± 20	100	0.240	0.200	1.61	1.80	1.04
LPS2512-3R6M	3.6	± 20	100	0.322	0.268	1.48	1.66	0.90
LPS2512-4R3M	4.3	± 20	100	0.348	0.290	1.37	1.53	0.87
LPS2512-4R7M	4.7	± 20	100	0.378	0.315	1.18	1.32	0.84
LPS2512-5R1M	5.1	± 20	100	0.378	0.315	1.18	1.32	0.84
LPS2512-5R6M	5.6	± 20	100	0.401	0.334	1.13	1.28	0.81
LPS2512-6R2M	6.2	± 20	100	0.500	0.417	1.03	1.16	0.73
LPS2512-6R8M	6.8	± 20	100	0.536	0.447	0.98	1.09	0.69
LPS2512-7R5M	7.5	± 20	100	0.564	0.470	0.97	1.09	0.68
LPS2512-8R2M	8.2	± 20	100	0.607	0.506	0.96	1.10	0.65
LPS2512-9R1M	9.1	± 20	100	0.667	0.556	0.95	1.06	0.62
LPS2512-100M	10	± 20	100	0.690	0.575	0.88	0.97	0.62
LPS2512-120M	12	± 20	100	0.992	0.827	0.78	0.87	0.51
LPS2512-150M	15	± 20	100	1.469	1.224	0.68	0.76	0.42
LPS2512-220M	22	± 20	100	1.824	1.520	0.53	0.59	0.38

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS3010 SERIES

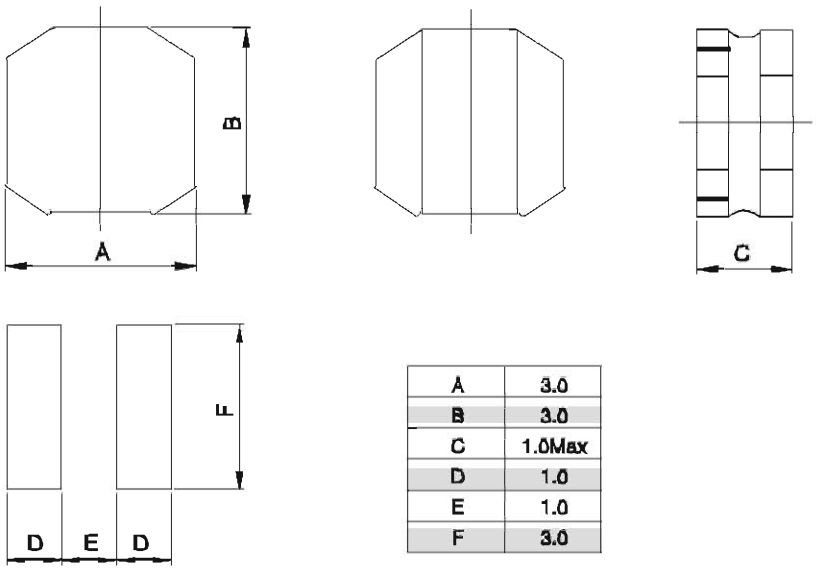
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 3x3mm, Height: 1.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	3.0
B	3.0
C	1.0Max
D	1.0
E	1.0
F	3.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency MHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS3010-1R0N	1.0	± 30	1.0	0.072	0.060	1.8	1.8	2.1
LPS3010-1R5N	1.5	± 30	1.0	0.085	0.071	1.35	1.5	1.9
LPS3010-2R2M	2.2	± 20	1.0	0.116	0.097	1.20	1.3	1.7
LPS3010-3R3M	3.3	± 20	1.0	0.156	0.13	1.00	1.1	1.5
LPS3010-4R7M	4.7	± 20	1.0	0.204	0.17	0.81	0.9	1.3
LPS3010-6R8M	6.8	± 20	1.0	0.312	0.26	0.69	0.77	1.0
LPS3010-100M	10	± 20	1.0	0.468	0.39	0.56	0.63	0.9
LPS3010-150M	15	± 20	1.0	0.612	0.51	0.48	0.54	0.7
LPS3010-220M	22	± 20	1.0	0.900	0.75	0.38	0.43	0.6

NOTES:

1. Rated current: Value obtained when current flows and the temperature has risen to 40℃ or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
2. Operating temperature range: -40 to +105℃ (Including self-temperature rise)

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS3012 SERIES

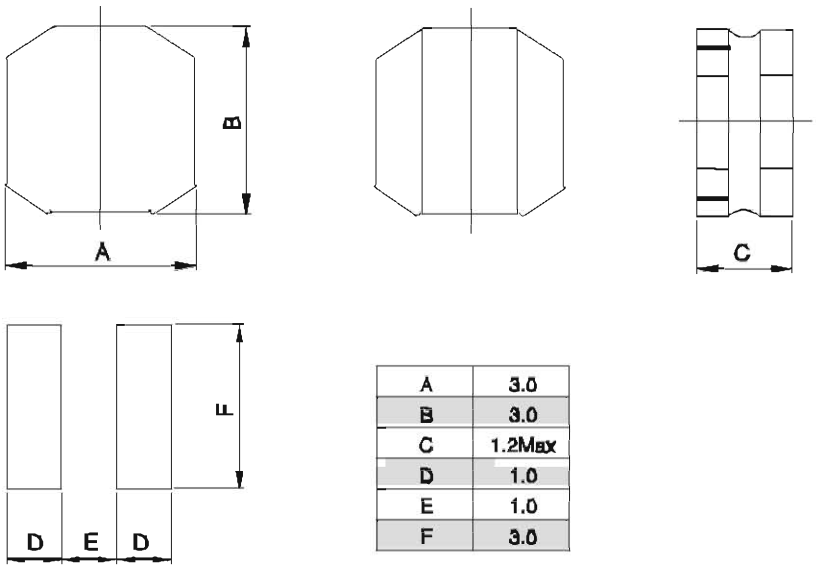
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 3x3mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	3.0
B	3.0
C	1.2Max
D	1.0
E	1.0
F	3.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency MHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS3012-1R0N	1.0	± 30	1.0	0.068	0.056	1.90	2.15	2.0
LPS3012-1R5N	1.5	± 30	1.0	0.078	0.063	1.50	1.70	1.85
LPS3012-2R2M	2.2	± 20	1.0	0.096	0.080	1.35	1.50	1.7
LPS3012-3R3M	3.3	± 20	1.0	0.120	0.100	1.05	1.20	1.55
LPS3012-4R7M	4.7	± 20	1.0	0.156	0.130	0.95	1.05	1.3
LPS3012-6R8M	6.8	± 20	1.0	0.228	0.190	0.81	0.90	1.05
LPS3012-100M	10	± 20	1.0	0.336	0.280	0.64	0.78	0.89
LPS3012-150M	15	± 20	1.0	0.516	0.430	0.55	0.62	0.74
LPS3012-220M	22	± 20	1.0	0.756	0.630	0.44	0.49	0.61
LPS3012-330M	33	± 20	1.0	1.248	1.040	0.37	0.41	0.48
LPS3012-470M	47	± 20	1.0	1.500	1.250	0.31	0.35	0.44

NOTES:

1. Rated current: Value obtained when current flows and the temperature has risen to 40℃ or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
2. Operating temperature range: -40 to +105℃ (including self-temperature rise)

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS3015 SERIES

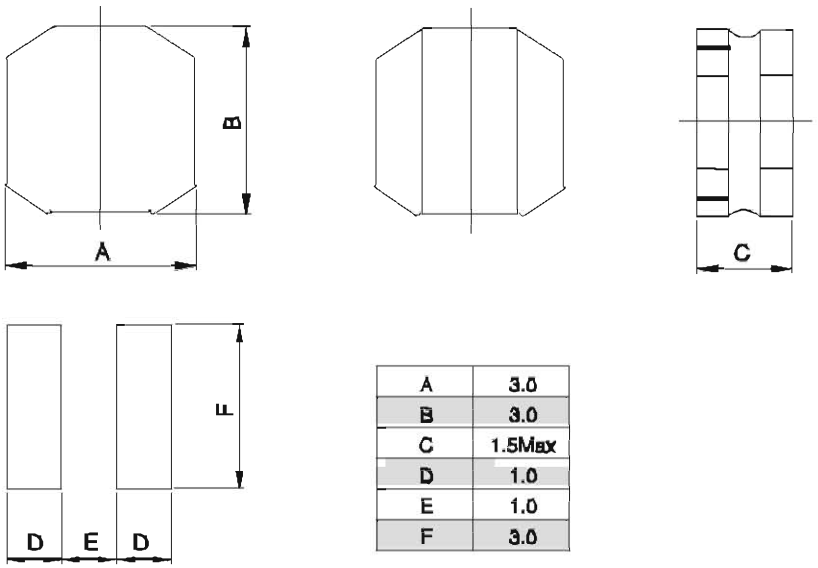
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 3x3mm, Height: 1.5mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	3.0
B	3.0
C	1.5Max
D	1.0
E	1.0
F	3.0

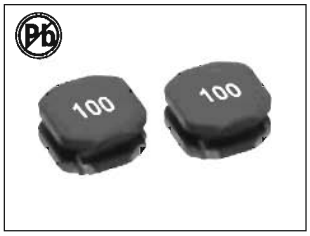
ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency MHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS3015-1R0N	1.0	± 30	1.0	0.058	0.048	2.00	2.20	2.10
LPS3015-1R5N	1.5	± 30	1.0	0.075	0.062	1.50	1.70	1.85
LPS3015-2R2M	2.2	± 20	1.0	0.084	0.070	1.35	1.50	1.75
LPS3015-3R3M	3.3	± 20	1.0	0.112	0.093	1.15	1.30	1.50
LPS3015-4R7M	4.7	± 20	1.0	0.136	0.113	1.00	1.10	1.35
LPS3015-6R8M	6.8	± 20	1.0	0.216	0.180	0.92	1.00	1.05
LPS3015-100M	10	± 20	1.0	0.288	0.240	0.70	0.78	0.94
LPS3015-150M	15	± 20	1.0	0.456	0.380	0.58	0.65	0.75
LPS3015-220M	22	± 20	1.0	0.660	0.550	0.48	0.54	0.62
LPS3015-330M	33	± 20	1.0	0.984	0.820	0.39	0.43	0.51
LPS3015-470M	47	± 20	1.0	1.500	1.250	0.32	0.35	0.41

NOTES:

1. Rated current: Value obtained when current flows and the temperature has risen to 40℃ or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
2. Operating temperature range: -40 to +105℃ (including self-temperature rise)

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4010 SERIES



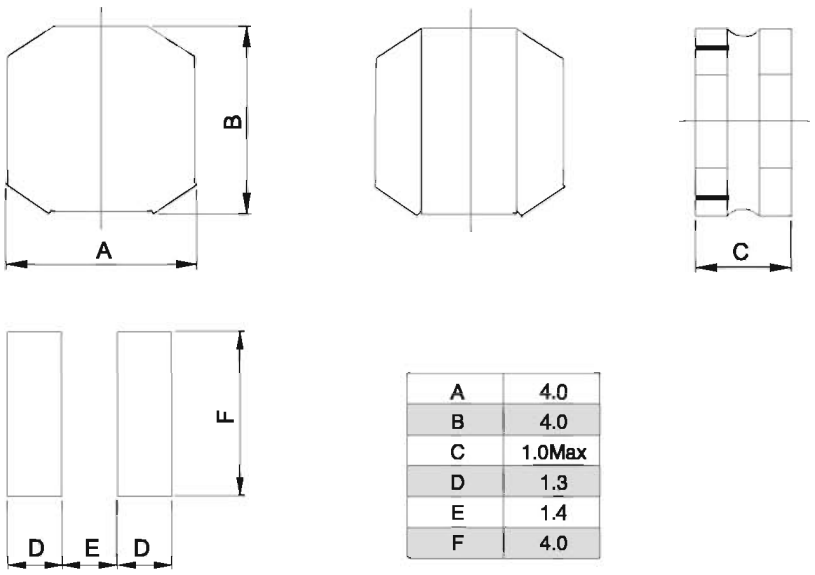
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	1.0Max
D	1.3
E	1.4
F	4.0

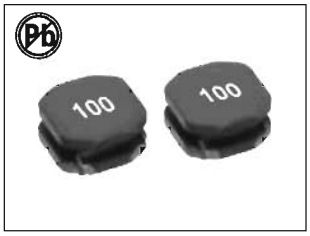
ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4010-1R0N	1.0	± 30	100	116	0.10	1.80	1.05
LPS4010-2R2N	2.2	± 30	100	73	0.15	1.15	0.89
LPS4010-3R3M	3.3	± 20	100	58	0.18	1.10	0.82
LPS4010-4R7M	4.7	± 20	100	47	0.21	0.90	0.75
LPS4010-6R8M	6.8	± 20	100	38	0.30	0.74	0.62
LPS4010-100M	10	± 20	100	31	0.38	0.56	0.60
LPS4010-150M	15	± 20	100	24	0.51	0.47	0.51
LPS4010-220M	22	± 20	100	19	0.87	0.36	0.40
LPS4010-330M	33	± 20	100	15	1.54	0.28	0.30
LPS4010-470M	47	± 20	100	13	1.81	0.24	0.28

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4012 SERIES



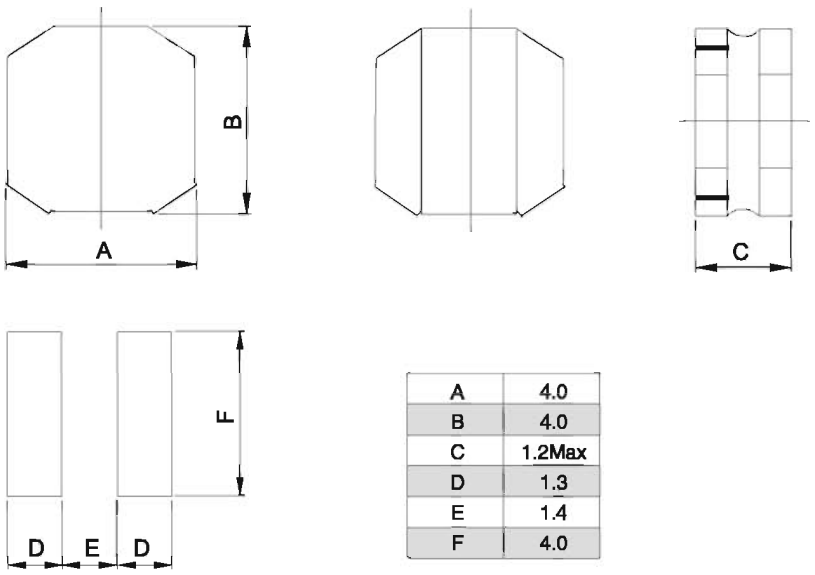
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	1.2Max
D	1.3
E	1.4
F	4.0

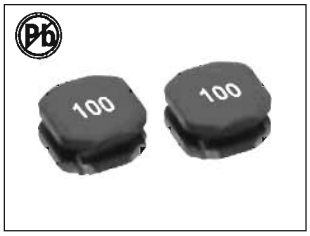
ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4012-1R0N	1.0	± 30	100	131	0.06	2.5	1.5
LPS4012-2R2N	2.2	± 30	100	66	0.09	1.65	1.2
LPS4012-3R3M	3.3	± 20	100	50	0.13	1.2	0.98
LPS4012-4R7M	4.7	± 20	100	45	0.14	1.05	0.96
LPS4012-6R8M	6.8	± 20	100	35	0.18	0.9	0.84
LPS4012-100M	10	± 20	100	28	0.24	0.74	0.77
LPS4012-150M	15	± 20	100	23	0.40	0.56	0.60
LPS4012-220M	22	± 20	100	18	0.48	0.51	0.54
LPS4012-330M	33	± 20	100	15	0.81	0.4	0.42
LPS4012-470M	47	± 20	100	12	1.00	0.35	0.37

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4018 SERIES



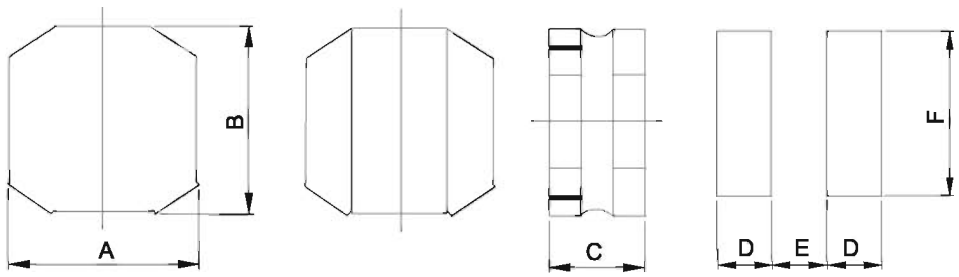
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.8mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	1.8Max
D	1.3
E	1.4
F	4.0

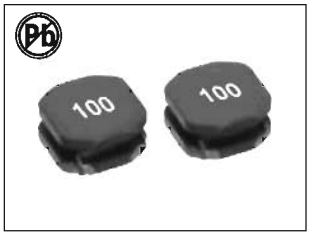
ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4018-1R0N	1.0	± 30	100	80	0.03	4.0	1.83
LPS4018-2R2M	2.2	± 20	100	52	0.06	2.7	1.44
LPS4018-3R3M	3.3	± 20	100	44	0.07	2.0	1.23
LPS4018-4R7M	4.7	± 20	100	34	0.09	1.7	1.2
LPS4018-6R8M	6.8	± 20	100	29	0.11	1.45	1.06
LPS4018-100M	10	± 20	100	24	0.18	1.2	0.84
LPS4018-150M	15	± 20	100	19	0.25	0.94	0.65
LPS4018-220M	22	± 20	100	16	0.36	0.8	0.59
LPS4018-330M	33	± 20	100	12	0.53	0.65	0.49
LPS4018-470M	47	± 20	100	10	0.65	0.57	0.42
LPS4018-680M	68	± 20	100	8.3	1.00	0.47	0.32
LPS4018-101M	100	± 20	100	6.5	1.50	0.4	0.27
LPS4018-151M	150	± 20	100	5.5	2.50	0.31	0.22
LPS4018-221M	220	± 20	100	4.0	4.00	0.27	0.17

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4020 SERIES



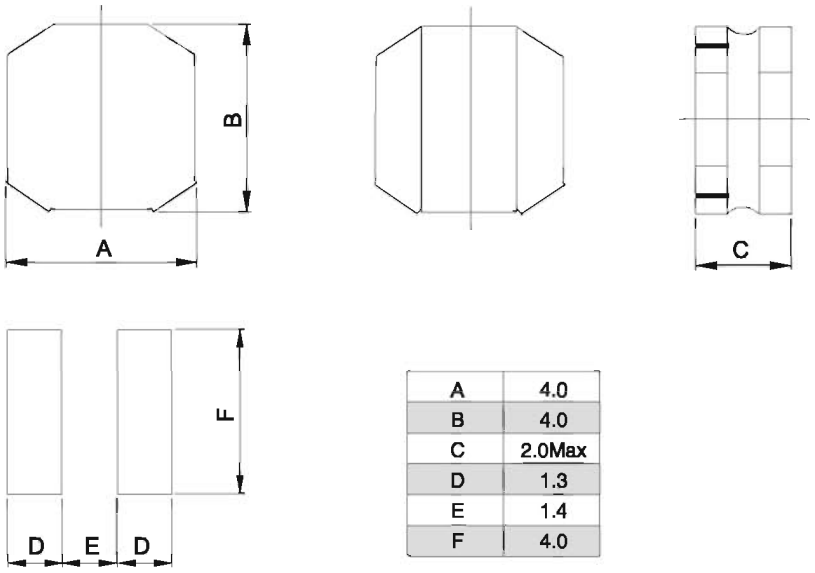
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 2.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	2.0Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4020-1R0N	1.0	± 30	100	98	0.020	4.85	2.60
LPS4020-1R2N	1.2	± 30	100	86	0.020	4.58	2.50
LPS4020-1R5N	1.5	± 30	100	86	0.030	3.85	2.15
LPS4020-2R2N	2.2	± 30	100	49	0.040	3.40	1.85
LPS4020-3R3M	3.3	± 20	100	44	0.070	3.20	1.40
LPS4020-3R6M	3.6	± 20	100	49	0.055	2.80	1.54
LPS4020-4R7M	4.7	± 20	100	42	0.075	2.35	1.34
LPS4020-5R1M	5.1	± 20	100	42	0.085	2.30	1.27
LPS4020-5R6M	5.6	± 20	100	30	0.090	2.20	1.22
LPS4020-6R2M	6.2	± 20	100	36	0.115	2.15	1.08
LPS4020-6R8M	6.8	± 20	100	33	0.125	2.20	1.04

Notes:

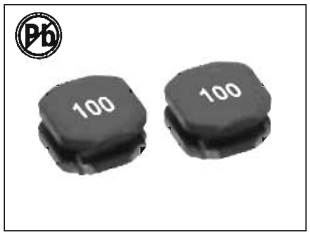
1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4020-7R5M	7.5	± 20	100	30	0.115	1.85	1.08
LPS4020-8R2M	8.2	± 20	100	27	0.125	1.75	1.04
LPS4020-100M	10	± 20	100	26	0.165	1.60	0.90
LPS4020-120M	12	± 20	100	26	0.175	1.50	0.88
LPS4020-150M	15	± 20	100	24	0.230	1.35	0.77
LPS4020-220M	22	± 20	100	15	0.350	1.05	0.62
LPS4020-270M	27	± 20	100	14	0.545	1.02	0.50
LPS4020-330M	33	± 20	100	11	0.550	0.85	0.49
LPS4020-390M	39	± 20	100	11	0.650	0.82	0.46
LPS4020-430M	43	± 20	100	10	0.660	0.77	0.45
LPS4020-470M	47	± 20	100	10	0.710	0.74	0.44
LPS4020-510M	51	± 20	100	10	0.750	0.70	0.42
LPS4020-560M	56	± 20	100	10	0.800	0.66	0.41
LPS4020-620M	62	± 20	100	9.6	0.900	0.65	0.39
LPS4020-680M	68	± 20	100	7.7	1.06	0.61	0.36
LPS4020-750M	75	± 20	100	7.7	1.12	0.60	0.35
LPS4020-820M	82	± 20	100	7.2	1.17	0.56	0.34
LPS4020-101M	100	± 20	100	6.3	1.35	0.52	0.31

Notes:

1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4030 SERIES



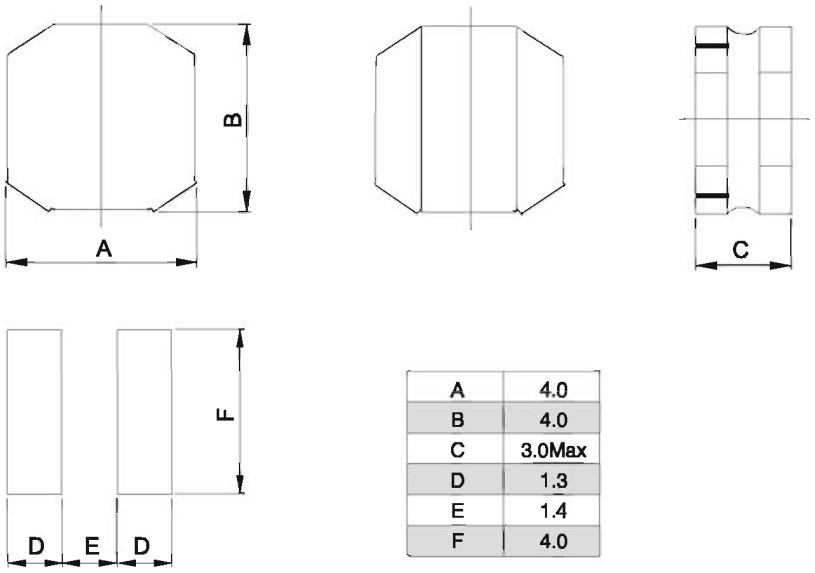
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 3.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	3.0Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4030-R91N	0.91	± 30	100	100	0.022	6.25	3.15
LPS4030-1R2N	1.2	± 30	100	80	0.025	5.80	2.96
LPS4030-1R5N	1.5	± 30	100	62	0.030	4.84	2.92
LPS4030-1R8N	1.8	± 30	100	60	0.030	5.4	2.92
LPS4030-2R2N	2.2	± 30	100	52	0.035	4.9	2.57
LPS4030-3R3M	3.3	± 20	100	38	0.040	3.3	2.40
LPS4030-4R3M	4.3	± 20	100	37	0.055	2.95	2.1
LPS4030-4R7M	4.7	± 20	100	31	0.060	2.90	2.0
LPS4030-5R6M	5.6	± 20	100	30	0.065	2.60	1.95
LPS4030-6R2M	6.2	± 20	100	29	0.070	2.50	1.85
LPS4030-6R8M	6.8	± 20	100	24	0.090	2.30	1.70
LPS4030-7R5M	7.5	± 20	100	26	0.092	2.20	1.65

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (ΔT=40℃) form 20℃ ambient.

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4030-8R2M	8.2	± 20	100	26	0.095	2.10	1.60
LPS4030-9R1M	9.1	± 20	100	23	0.095	2.00	1.55
LPS4030-100M	10	± 20	100	21	0.100	1.95	1.50
LPS4030-120M	12	± 20	100	18	0.135	1.70	1.30
LPS4030-150M	15	± 20	100	16	0.190	1.65	1.11
LPS4030-180M	18	± 20	100	10	0.200	1.4	1.10
LPS4030-220M	22	± 20	100	10	0.225	1.3	1.00
LPS4030-330M	33	± 20	100	10	0.330	1.1	0.84
LPS4030-360M	36	± 20	100	9.9	0.335	1.05	0.83
LPS4030-390M	39	± 20	100	10	0.435	1.03	0.73
LPS4030-430M	43	± 20	100	9.2	0.440	1.00	0.73
LPS4030-470M	47	± 20	100	8.4	0.445	0.95	0.72
LPS4030-510M	51	± 20	100	8.4	0.470	0.90	0.70
LPS4030-560M	56	± 20	100	8.4	0.555	0.85	0.65
LPS4030-620M	62	± 20	100	7	0.829	0.80	0.53
LPS4030-680M	68	± 20	100	7	0.868	0.75	0.52
LPS4030-750M	75	± 20	100	6.3	1.02	0.70	0.48
LPS4030-820M	82	± 20	100	5.6	1.06	0.66	0.47
LPS4030-910M	91	± 20	100	5.6	1.10	0.65	0.46
LPS4030-101M	100	± 20	100	5.6	1.15	0.60	0.45
LPS4030-121M	120	± 20	100	5.4	1.35	0.55	0.42

Notes:

1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS5020 SERIES

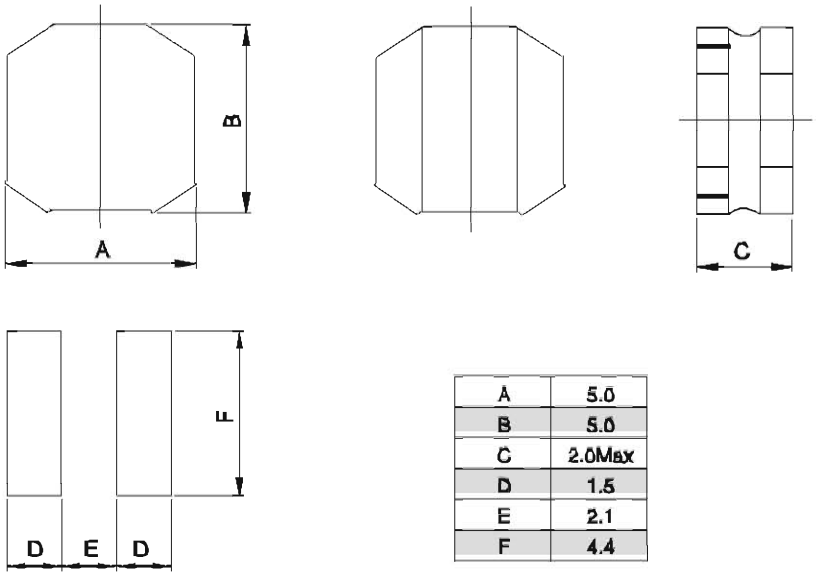
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 5x5mm, Height: 2.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	5.0
B	5.0
C	2.0Max
D	1.5
E	2.1
F	4.4

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS5020-1R0N	1.0	± 30	100	97	0.018	4.33	3.7
LPS5020-1R5N	1.5	± 30	100	80	0.026	3.85	3.2
LPS5020-2R2N	2.2	± 30	100	61	0.035	3.85	2.9
LPS5020-3R3N	3.3	± 30	100	46	0.044	3.25	2.4
LPS5020-4R7N	4.7	± 30	100	33	0.059	2.40	2.05
LPS5020-6R8M	6.8	± 20	100	30	0.087	1.80	1.7
LPS5020-100M	10	± 20	100	24	0.110	1.79	1.50
LPS5020-150M	15	± 20	100	20	0.165	1.44	1.25
LPS5020-220M	22	± 20	100	18	0.235	1.18	1.05
LPS5020-330M	33	± 20	100	13	0.370	1.97	0.83

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS5040 SERIES

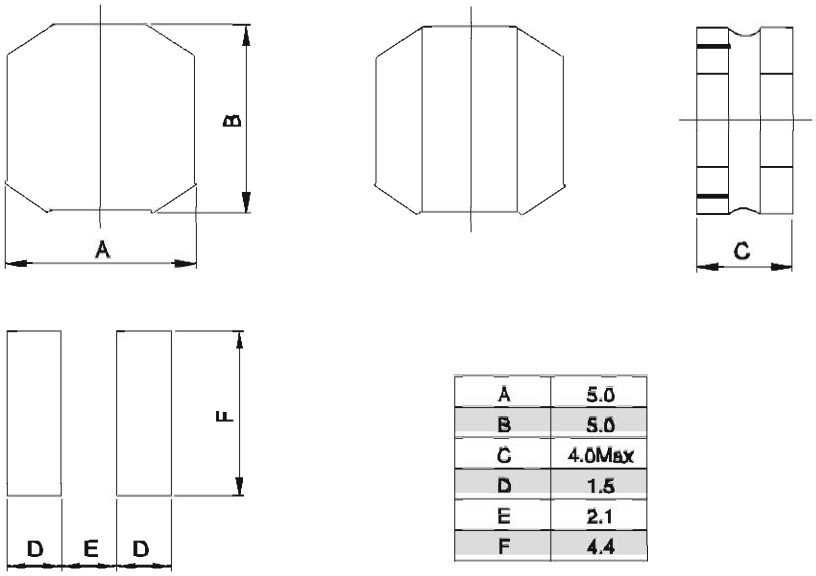
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 5x5mm, Height: 4.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	5.0
B	5.0
C	4.0Max
D	1.5
E	2.1
F	4.4

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS5040-1R5N	1.5	± 30	100	60	0.013	7.3	4.45
LPS5040-2R2N	2.2	± 30	100	42	0.017	6.5	3.95
LPS5040-3R3N	3.3	± 30	100	32	0.025	5.1	3.4
LPS5040-4R7N	4.7	± 30	100	28	0.029	4.4	3.1
LPS5040-6R8M	6.8	± 20	100	21	0.043	3.8	2.4
LPS5040-100M	10	± 20	100	18	0.055	2.9	2.1
LPS5040-150M	15	± 20	100	13	0.089	2.3	1.8
LPS5040-220M	22	± 20	100	9	0.126	1.9	1.4
LPS5040-330M	33	± 20	100	7	0.192	1.6	1.2
LPS5040-470M	47	± 20	100	6	0.283	1.3	0.94

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6012 SERIES

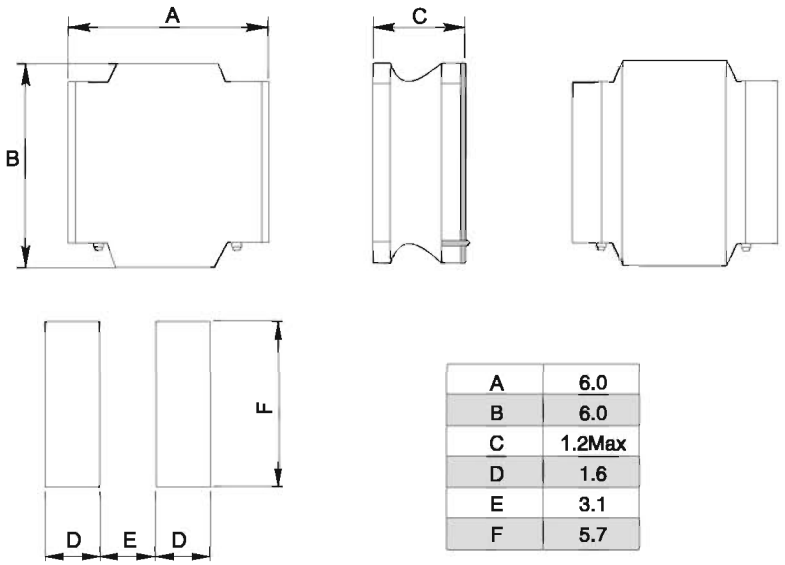
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	1.2Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS6012-2R5N	2.5	± 30	100	45	0.09	2.1	1.73
LPS6012-4R0N	4.0	± 30	100	39	0.105	1.8	1.57
LPS6012-5R3M	5.3	± 20	100	34	0.125	1.5	1.4
LPS6012-6R8M	6.8	± 20	100	30	0.165	1.3	1.18
LPS6012-100M	10	± 20	100	22	0.235	1.0	1.0
LPS6012-150M	15	± 20	100	18	0.33	0.8	0.79
LPS6012-220M	22	± 20	100	12	0.53	0.76	0.63
LPS6012-330M	33	± 20	100	8	0.7	0.59	0.53
LPS6012-470M	47	± 20	100	6	1.05	0.52	0.46
LPS6012-680M	68	± 20	100	3	1.35	0.44	0.41
LPS6012-101M	100	± 20	100	1	2.18	0.35	0.32

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6020 SERIES

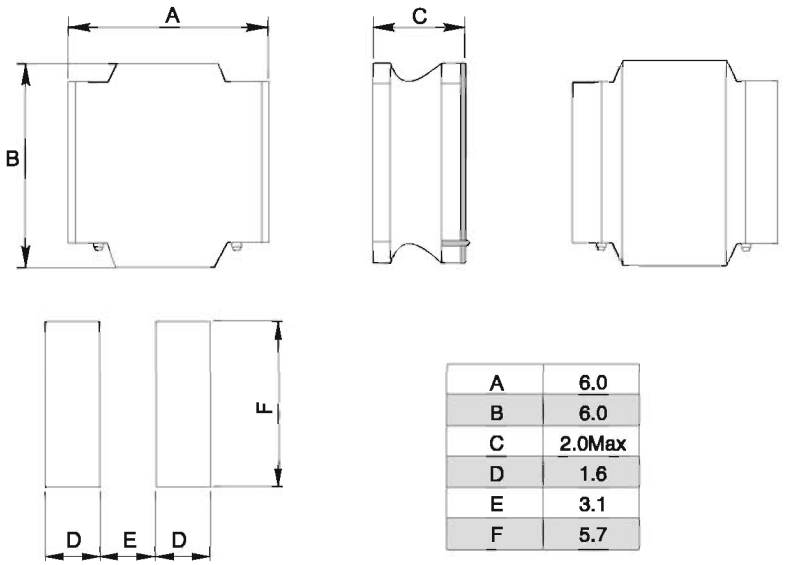
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 2.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	2.0Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6020-0R8N	0.8	± 30	100	110	0.02	5.5	3.8
LPS6020-1R5N	1.5	± 30	100	93	0.026	4.0	3.2
LPS6020-2R2N	2.2	± 30	100	73	0.034	3.2	2.7
LPS6020-3R3N	3.3	± 30	100	55	0.04	2.8	2.6
LPS6020-4R7N	4.7	± 30	100	43	0.058	2.4	2.0
LPS6020-6R8N	6.8	± 30	100	30	0.085	2.0	1.8
LPS6020-100M	10	± 20	100	18	0.125	1.7	1.4
LPS6020-220M	22	± 20	100	11	0.290	1.05	0.95

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6028 SERIES

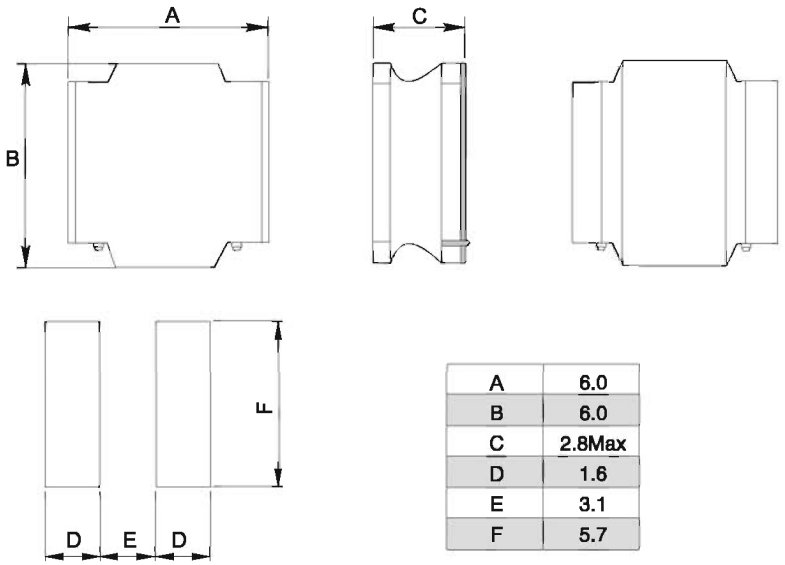
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 2.8mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	2.8Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6028–1R5N	1.5	± 30	100	65	0.013	6.00	4.58
LPS6028–2R2N	2.2	± 30	100	56	0.015	5.10	4.09
LPS6028–2R7N	2.7	± 30	100	48	0.020	3.80	3.75
LPS6028–3R3N	3.3	± 30	100	41	0.025	3.63	3.48
LPS6028–4R7N	4.7	± 30	100	35	0.030	3.00	3.08
LPS6028–5R1N	5.1	± 30	100	33	0.035	3.55	2.89
LPS6028–6R2M	6.2	± 20	100	30	0.040	3.05	2.56
LPS6028–6R8M	6.8	± 20	100	27	0.047	2.85	2.40
LPS6028–6R2M	8.2	± 20	100	24	0.055	2.60	2.25
LPS6028–9R1M	9.1	± 20	100	24	0.060	2.55	2.15
LPS6028–100M	10	± 20	100	23	0.072	2.04	1.95
LPS6028–120M	15	± 20	100	18	0.080	1.80	1.85

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6028-150M	15	± 20	100	18	0.125	1.75	1.45
LPS6028-180M	18	± 20	100	15	0.125	1.52	1.45
LPS6028-220M	22	± 20	100	14	0.140	1.60	1.40
LPS6028-270M	27	± 20	100	13	0.155	1.50	1.32
LPS6028-330M	33	± 20	100	12	0.185	1.35	1.22
LPS6028-360M	36	± 20	100	11	0.215	1.25	1.13
LPS6028-390M	39	± 20	100	11	0.225	1.25	1.10
LPS6028-430M	43	± 20	100	11	0.235	1.20	1.07
LPS6028-470M	47	± 20	100	9.5	0.245	1.15	1.06
LPS6028-510M	51	± 20	100	9.5	0.265	1.05	1.01
LPS6028-620M	62	± 20	100	7.7	0.345	0.95	0.89
LPS6028-680M	68	± 20	100	7.7	0.360	0.95	0.86
LPS6028-750M	75	± 20	100	7.7	0.410	0.90	0.81
LPS6028-820M	82	± 20	100	7.7	0.445	0.90	0.78
LPS6028-910M	91	± 20	100	7.7	0.505	0.80	0.73
LPS6028-101M	100	± 20	100	7.1	0.545	0.75	0.70

Notes:

1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6045 SERIES

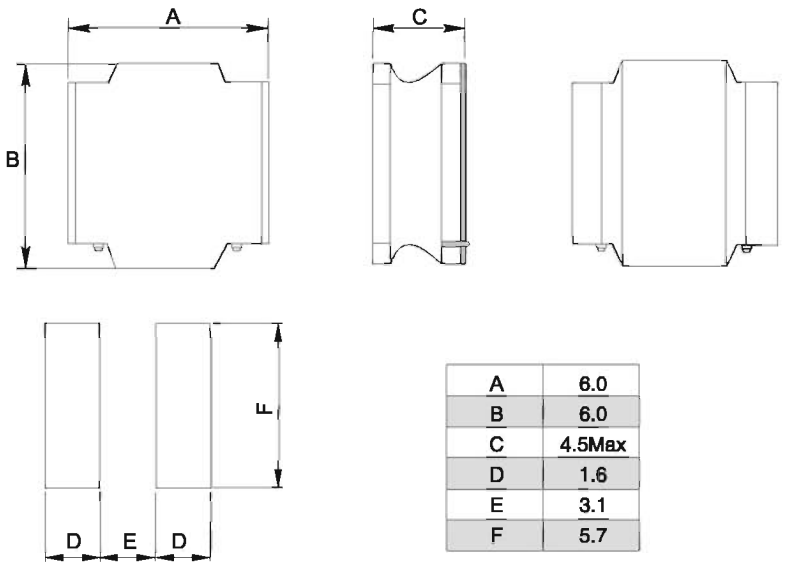
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 4.5mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	4.5Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

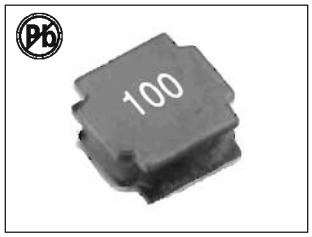
Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6045–R82N	0.82	± 30	100	140	0.008	10.35	5.90
LPS6045–1R0N	1.0	± 30	100	100	0.010	9.85	5.14
LPS6045–1R2N	1.2	± 30	100	100	0.011	8.35	5.40
LPS6045–1R5N	1.5	± 30	100	65	0.012	8.80	4.95
LPS6045–1R8N	1.8	± 30	100	74	0.012	7.60	4.95
LPS6045–2R2N	2.2	± 30	100	52	0.014	6.75	4.60
LPS6045–2R7N	2.7	± 30	100	38	0.015	5.75	4.30
LPS6045–3R6N	3.6	± 30	100	28	0.021	5.25	3.70
LPS6045–4R3M	4.3	± 20	100	23	0.023	4.45	3.50
LPS6045–4R7M	4.7	± 20	100	24	0.026	4.97	3.30

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6045-5R1M	5.1	± 20	100	23	0.026	4.40	3.30
LPS6045-5R6M	5.6	± 20	100	23	0.029	4.15	3.15
LPS6045-6R2M	6.2	± 20	100	26	0.031	4.43	3.00
LPS6045-6R8M	6.8	± 20	100	20	0.031	3.90	3.00
LPS6045-7R5M	7.5	± 20	100	18	0.034	3.50	2.90
LPS6045-8R2M	8.2	± 20	100	21	0.043	3.90	2.60
LPS6045-9R1M	9.1	± 20	100	17	0.043	3.35	2.60
LPS6045-100M	10	± 20	100	15	0.048	3.20	2.45
LPS6045-120M	12	± 20	100	13	0.058	2.80	2.20
LPS6045-150M	15	± 20	100	12	0.068	2.50	2.05
LPS6045-180M	18	± 20	100	10	0.081	2.20	1.85
LPS6045-220M	22	± 20	100	10	0.089	2.05	1.80
LPS6045-270M	27	± 20	100	9.2	0.102	1.90	1.65
LPS6045-300M	30	± 20	100	7.8	0.132	1.70	1.50
LPS6045-330M	33	± 20	100	7.8	0.137	1.65	1.45
LPS6045-390M	39	± 20	100	7.8	0.180	1.50	1.25
LPS6045-430M	43	± 20	100	7.7	0.200	1.63	1.20
LPS6045-470M	47	± 20	100	6.4	0.200	1.40	1.20
LPS6045-510M	51	± 20	100	6.4	0.207	1.35	1.15
LPS6045-560M	56	± 20	100	6.4	0.221	1.30	1.10
LPS6045-620M	62	± 20	100	6.4	0.235	1.25	1.10
LPS6045-680M	68	± 20	100	6.4	0.289	1.20	1.00
LPS6045-750M	75	± 20	100	5.0	0.305	1.15	0.95
LPS6045-820M	82	± 20	100	4.9	0.341	1.05	0.90
LPS6045-910M	91	± 20	100	4.9	0.359	1.00	0.85
LPS6045-101M	100	± 20	100	4.2	0.433	0.95	0.80
LPS6045-121M	120	± 20	100	4.2	0.484	0.85	0.77
LPS6045-151M	150	± 20	100	4.2	0.580	0.80	0.70
LPS6045-221M	220	± 20	100	3.5	0.834	0.70	0.59
LPS6045-331M	330	± 20	100	2.8	1.000	0.57	0.57

Notes:

1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS8030 SERIES



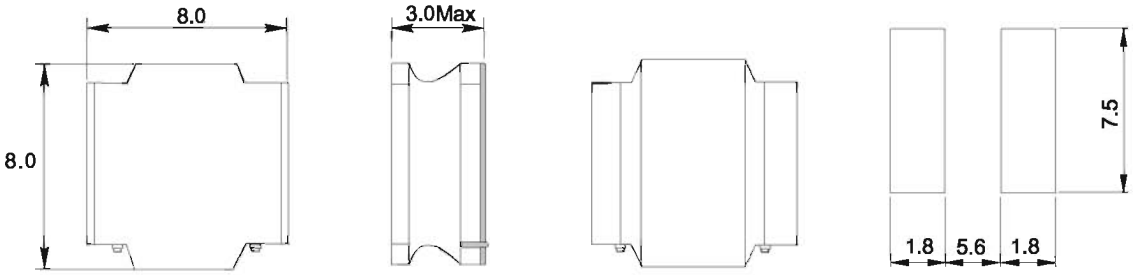
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 8x8mm, Height: 3.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



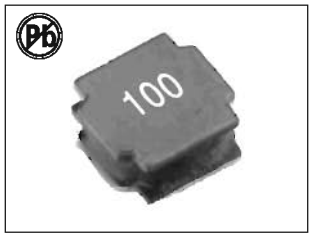
ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8030-1R0N	1.0	± 30	100	120	0.009	7.80	6.20
LPS8030-1R5N	1.5	± 30	100	80	0.012	6.20	5.30
LPS8030-2R2N	2.2	± 30	100	60	0.015	4.90	4.80
LPS8030-3R3M	3.3	± 20	100	50	0.019	4.20	4.30
LPS8030-4R7M	4.7	± 20	100	40	0.022	3.60	4.00
LPS8030-6R8M	6.8	± 20	100	32	0.029	3.00	3.40
LPS8030-100M	10	± 20	100	27	0.033	2.40	3.00
LPS8030-150M	15	± 20	100	20	0.060	2.00	2.20
LPS8030-220M	22	± 20	100	16	0.070	1.75	1.90
LPS8030-330M	33	± 20	100	13	0.120	1.30	1.50
LPS8030-470M	47	± 20	100	11	0.170	1.10	1.30

Notes:

1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS8040 SERIES



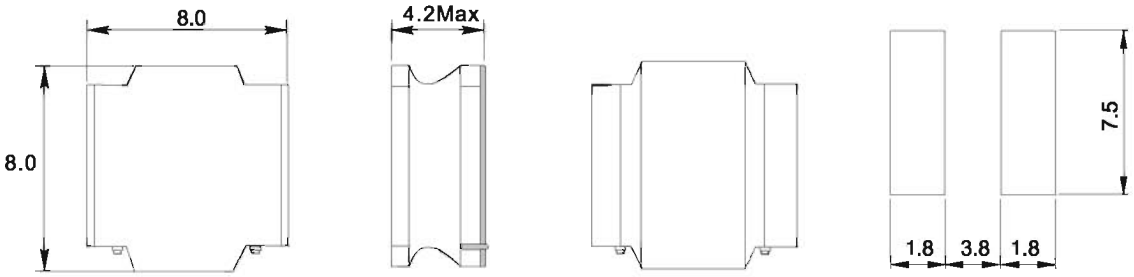
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 8x8mm, Height: 4.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8040-R82N	0.82	± 30	100	94	0.008	13.80	6.30
LPS8040-1R0N	1.0	± 30	100	89	0.008	9.85	6.30
LPS8040-1R5N	1.5	± 30	100	67	0.010	8.15	5.65
LPS8040-2R0N	2.0	± 30	100	43	0.012	9.25	5.15
LPS8040-2R2N	2.2	± 30	100	41	0.012	7.10	5.15
LPS8040-3R0N	3.0	± 30	100	32	0.014	6.10	4.70
LPS8040-3R3N	3.3	± 30	100	27	0.017	6.50	4.40
LPS8040-3R9N	3.9	± 30	100	26	0.017	5.75	4.35
LPS8040-4R7N	4.7	± 30	100	24	0.019	5.90	4.10
LPS8040-5R1N	5.1	± 30	100	22	0.019	4.70	4.05
LPS8040-5R6N	5.6	± 30	100	24	0.021	6.00	3.85
LPS8040-6R2N	6.2	± 30	100	20	0.021	4.45	3.85
LPS8040-6R8M	6.6	± 20	100	20	0.024	4.55	3.60
LPS8040-6R2M	8.2	± 20	100	17	0.026	4.20	3.45
LPS8040-100M	10	± 20	100	15	0.029	3.60	3.30
LPS8040-150M	15	± 20	100	12	0.047	2.95	2.60
LPS6040-180M	18	± 20	100	11	0.053	2.70	2.40
LPS8040-220M	22	± 20	100	9.5	0.069	2.40	2.10
LPS8040-270M	27	± 20	100	9.2	0.078	2.15	2.00
LPS8040-330M	33	± 20	100	7.8	0.097	2.05	1.80

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8040-360M	36	± 20	100	7.8	0.102	2.00	1.75
LPS8040-390M	39	± 20	100	7.8	0.107	1.95	1.70
LPS8040-430M	43	± 20	100	7.8	0.113	1.90	1.65
LPS8040-470M	47	± 20	100	.4	0.136	1.75	1.55
LPS8040-510M	51	± 20	100	6.4	0.142	1.70	1.50
LPS8040-560M	56	± 20	100	6.4	0.148	1.55	1.45
LPS8040-620M	62	± 20	100	6.4	0.182	1.50	1.30
LPS8040-680M	68	± 20	100	4.9	0.196	1.45	1.25
LPS8040-750M	75	± 20	100	4.9	0.211	1.35	1.20
LPS8040-820M	82	± 20	100	5.9	0.225	1.30	1.15
LPS8040-910M	91	± 20	100	4.9	0.272	1.20	1.05
LPS8040-101M	100	± 20	100	4.2	0.290	1.15	1.00
LPS8040-121M	120	± 20	100	3.5	0.334	1.05	0.95
LPS8040-221M	220	± 20	100	3.5	0.599	0.85	0.80
LPS8040-331M	330	± 20	100	2.8	0.889	0.68	0.64

Notes:

1.All test data is referenced to 20℃ ambient.
2.Rated current: Isat or Irms, whichever is smaller.
3.Isat: DC current at which the inductance drops approximate 30% form its value without current.
4.Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI0402S SERIES

FEATURES:

- Current up to 3A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

ELECTRICAL CHARACTERISTICS:

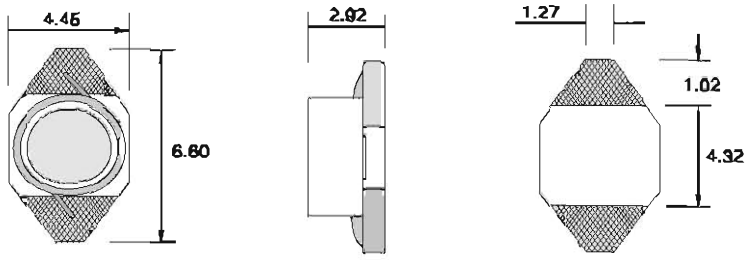
Part Number SPI0402S-	L(μH) ±20%	DCR (Ω) Max	IDC (A) Max
1R0	1.0	0.040	3.0
1R5	1.5	0.045	2.8
2R2	2.2	0.050	1.8
3R3	3.3	0.055	1.6
4R7	4.7	0.060	1.4
6R8	6.8	0.065	1.2
100	10	0.075	1.0
150	15	0.090	0.80
220	22	0.11	0.70
330	33	0.18	0.60
470	47	0.23	0.50
680	68	0.28	0.40
101	100	0.48	030
151	150	0.59	026
221	220	0.90	0.22
331	330	1.40	0.20
471	470	1.80	019
681	680	2.20	0.18
102	100	3.40	0.15
152	1500	4.20	0.12
222	2200	8.50	0.10
332	3300	11.0	0.08
472	4700	13.8	0.06
682	6800	25.0	0.04
103	10000	32.8	0.02

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

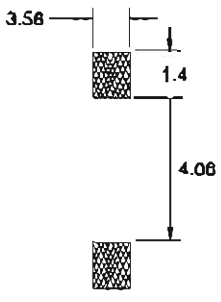
Note:All specification subject to change without noticed.

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI0802S SERIES

FEATURES:

- Current up to 4A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

ELECTRICAL CHARACTERISTICS:

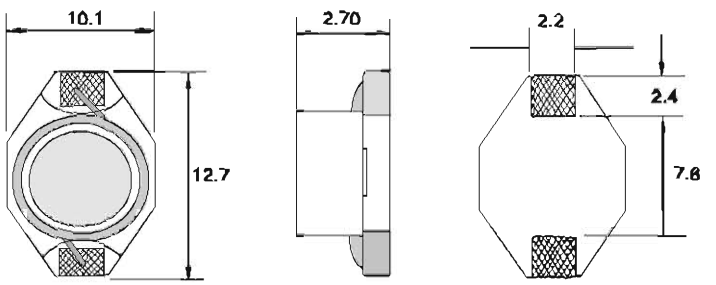
Part Number SPI0802S-	L(μH) ±20%	DCR (Ω) Max	IDC (A) Max
1R5	1.5	0.038	4.00
2R2	2.2	0.045	3.50
3R3	3.3	0.062	3.00
4R7	4.7	0.78	2.50
6R8	6.8	0.10	2.20
100	10	0.145	2.00
150	15	0.20	1.50
220	22	0.30	1.30
330	33	0.45	1.10
470	47	0.65	0.80
680	68	0.80	0.70
101	100	1.40	0.60
151	150	1.90	0.50
221	220	2.20	0.40
331	330	3.60	0.30
471	470	5.10	0.20

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

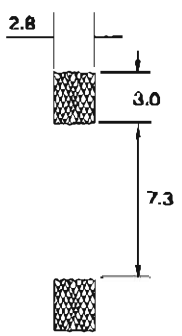
Note:All specification subject to change without noticed.

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI0804S SERIES

FEATURES:

- Current up to 5A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

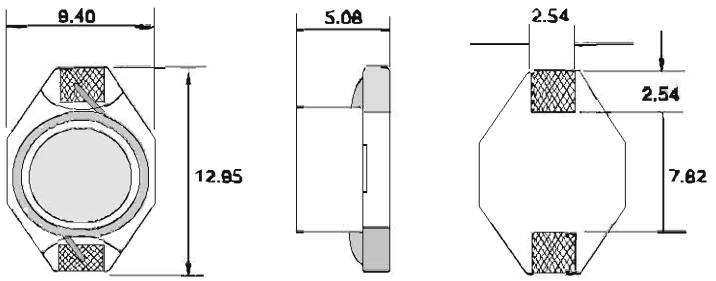
ELECTRICAL CHARACTERISTICS:

Part Number SPI0802S-	L(μH) ±20%	DCR (Ω) Max	IDC (A) Max
1R0	1.0	0.021	5.0
1R5	1.5	0.022	4.5
2R2	2.2	0.032	3.8
3R3	3.3	0.039	3.3
4R7	4.7	0.054	2.7
6R8	6.8	0.075	2.2
100	10	0.101	2.0
150	15	0.150	1.5
220	22	0.207	1.3
330	33	0.334	1.1
470	47	0.472	0.80

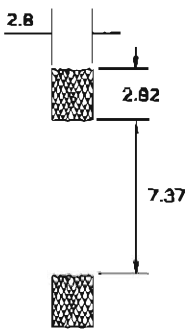
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Realstance to soldering heat:260℃ for 10 seconds
- Solvent realstance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



Notel:All specification subject to change without noticed.

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI1306S SERIES

FEATURES:

- Current up to 3.9A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

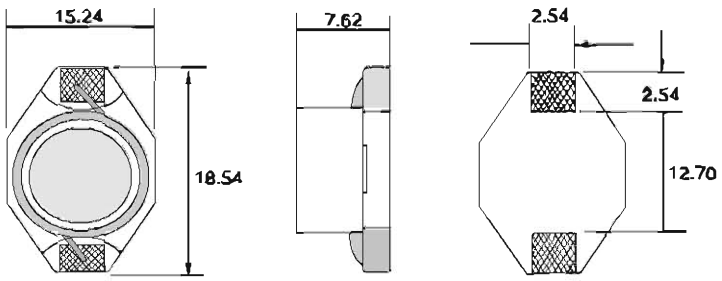
ELECTRICAL CHARACTERISTICS:

Part Number SPI1306S-	L(μH) ±20%	DCR (Ω) Max	IDC (A) Max
100	10	0.040	3.9
150	15	0.048	3.4
220	22	0.059	3.1
330	33	0.075	2.8
470	47	0.097	2.4
680	68	0.138	2.0
101	100	0.207	1.7
151	150	0.293	1.3
221	220	0.470	1.1
331	330	0.780	0.86
471	470	1.08	0.73
681	680	1.40	0.64
102	100	2.01	0.53

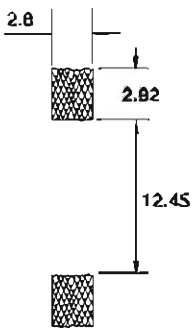
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Realstance to soldering heat:260℃ for 10 seconds
- Solvent realstance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

PHYSICAL CHARACTERISTICS

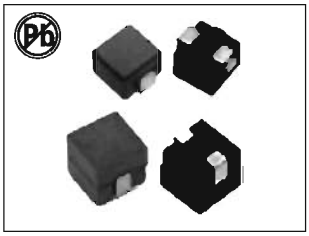
DIMENSION:(mm)



PAD LAYOUT



Notel:All specification subject to change without noticed.



HIGH CURRENT POWER INDUCTORS
HCB0404 0505 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 22nH to 110nH
- Current range from 14A to 40A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

APPLICATIONS:

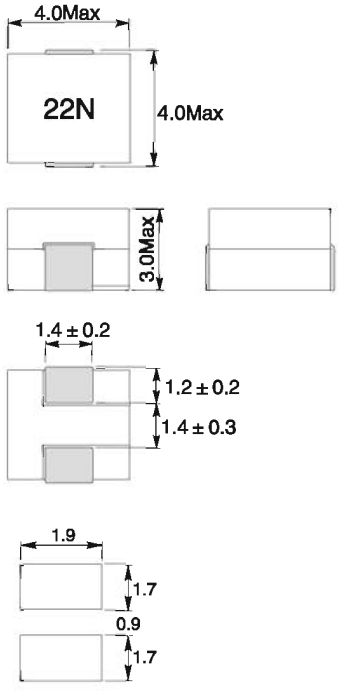
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 ℃ (mΩ) ± 25%
HCB0404R1-22NM	22 ± 20%	15	19	40	32	0.32 ± 15%
HCB0404R1-65NY	65	44	19	24	20	0.32
HCB0404R1-80NY	80	54	19	20	16	0.32
HCB0404R1-R10Y	100	68	19	16	13	0.32
HCB0404R1-R11Y	110	74	19	14	12	0.32
HCB0505R1-R10K	100	68	30	34	24	0.38

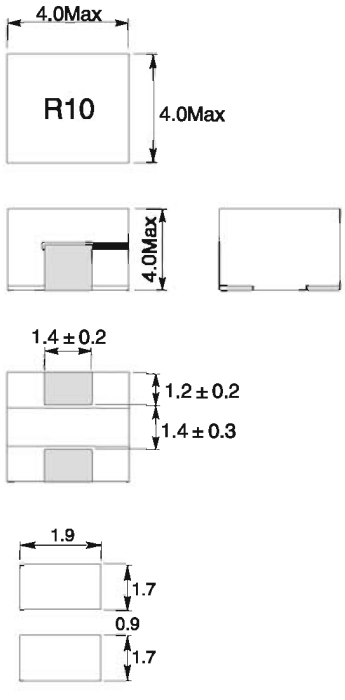
DIMENSIONS:(mm)

0404R1-22NM



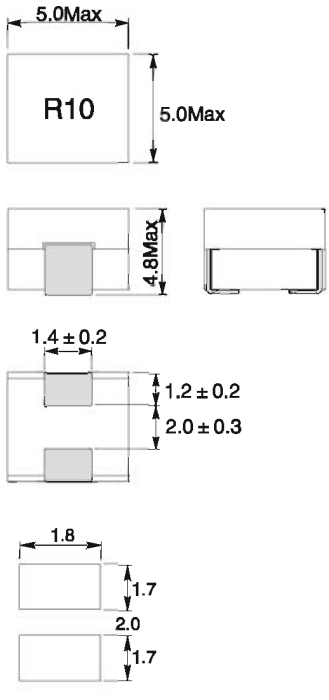
Recommended pad layout

0404R1-65NY,80NY,R10Y,R11Y



Recommended pad layout

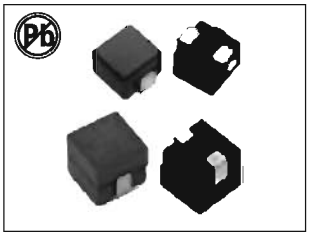
0505R1-R10K



Recommended pad layout

NOTES:

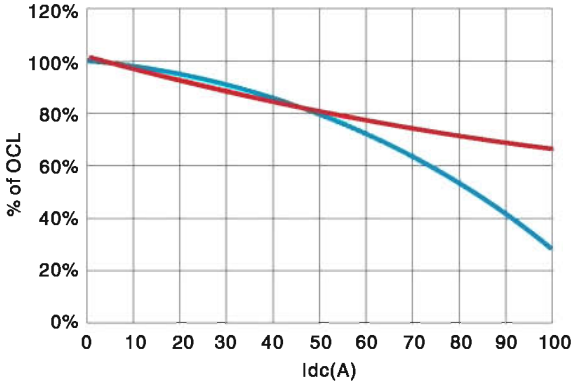
- Test Frequency : 100KHz / 0.1V@25℃ (1MHz/0.1V for 22NM)
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: –40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: –40℃ to +125℃



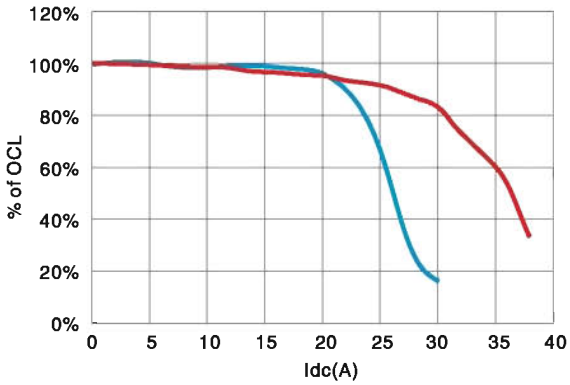
HIGH CURRENT POWER INDUCTORS
HCB0404 0505 SERIES

INDUCTANCE CHARACTERISICS:

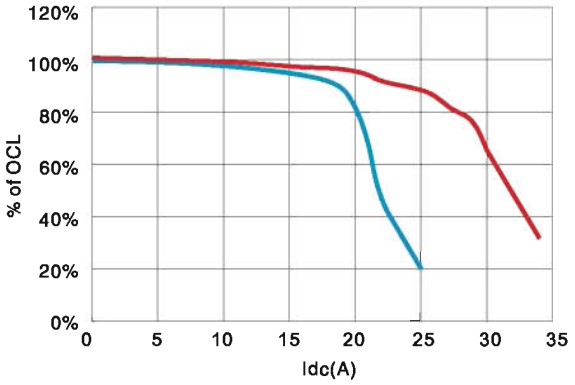
HCB0404R1-22NM



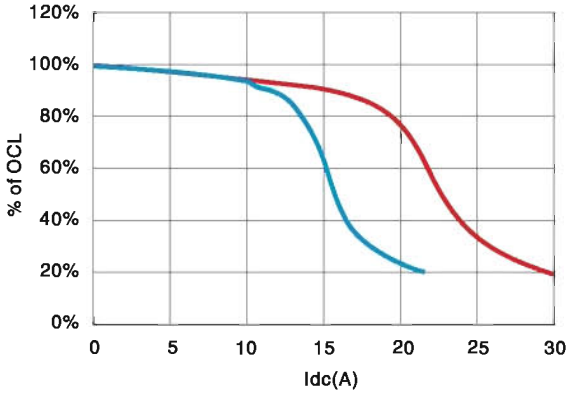
HCB0404R1-65NY



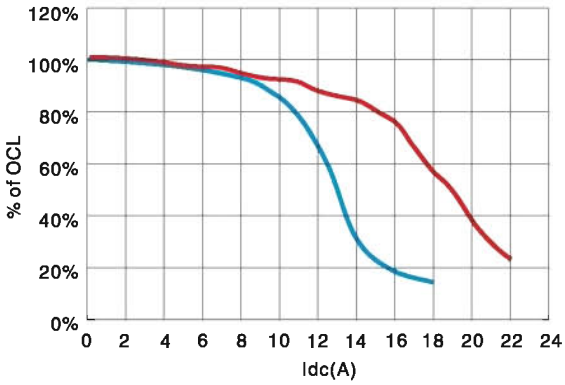
HCB0404R1-80NY



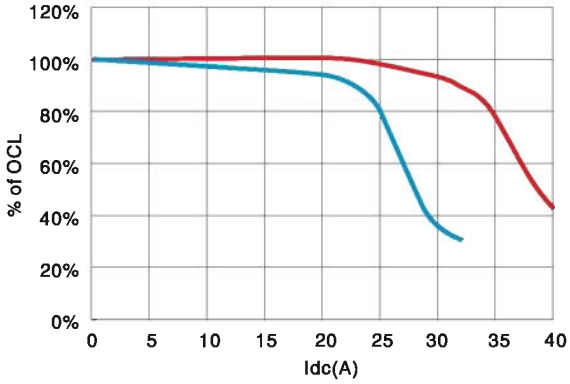
HCB0404R1-R10Y



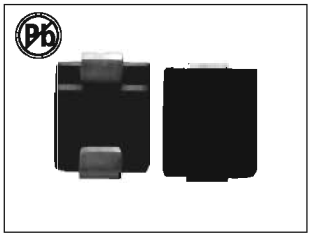
HCB0404R1-R11Y



HCB0505R1-R10K



+25℃
+125℃



HIGH CURRENT POWER INDUCTORS

HCB0703 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 80nH to 150nH
- Current range from 16A to 32A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

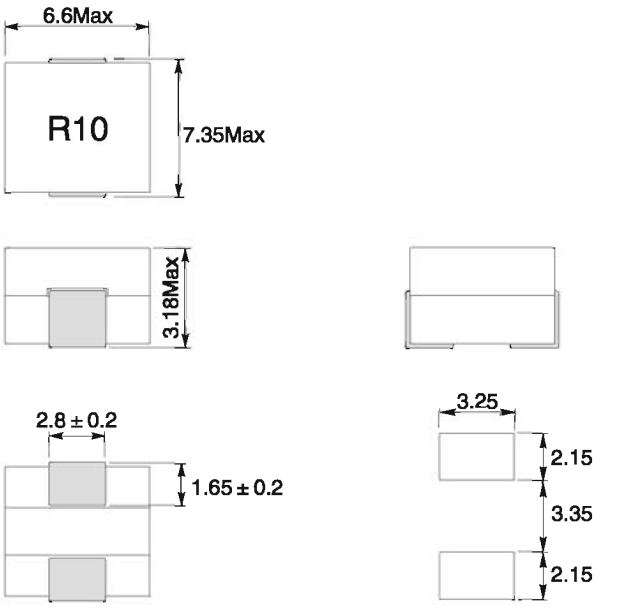
APPLCATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

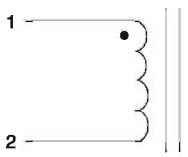
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 ℃ (mΩ) ± 10%
HCB0703R1-80NK	80	54	28	32	27	1.35
HCB0703R1-R10K	100	72	28	27	23	1.35
HCB0703R1-R12K	120	86	28	22	19	1.35
HCB0703R1-R15K	150	108	28	16	13	1.35

DIMENSIONS(mm) :



Recommended pad layout

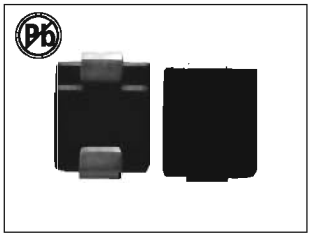
SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

Note:All specifications subject to change without notice.

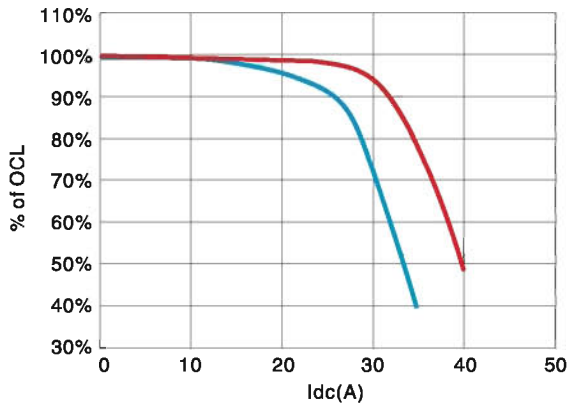


HIGH CURRENT POWER INDUCTORS

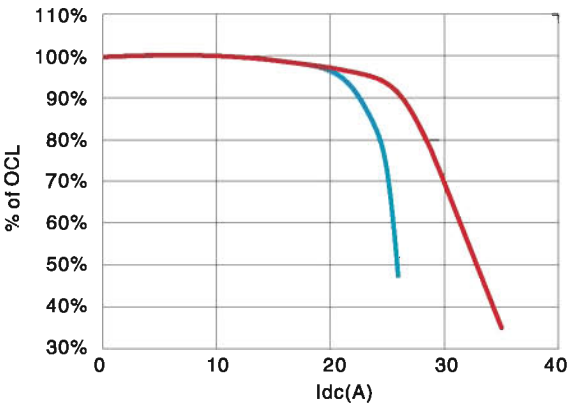
HCB0703 SERIES

INDUCTANCE CHARACTERISICS:

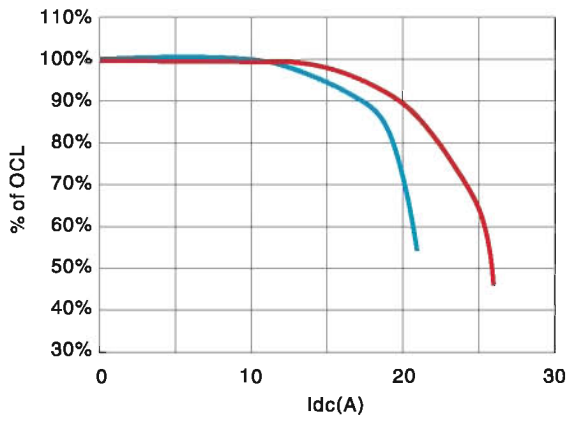
HCB0703R1-80NK



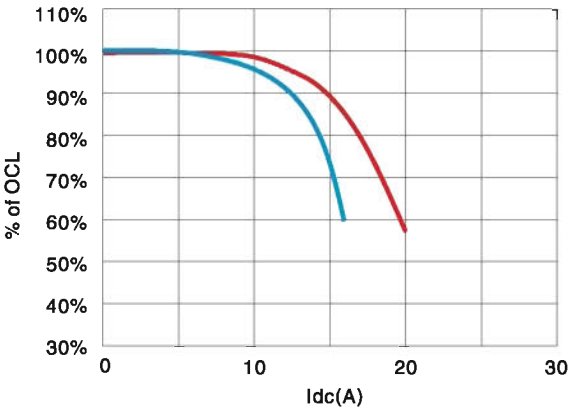
HCB0703R1-R10K



HCB0703R1-R12K

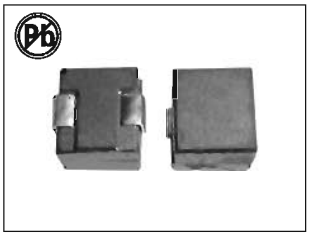


HCB0703R1-R15K



+25℃

+125℃



HIGH CURRENT POWER INDUCTORS
HCB0705 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 72nH to 226nH
- Current range from 20A to 65A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

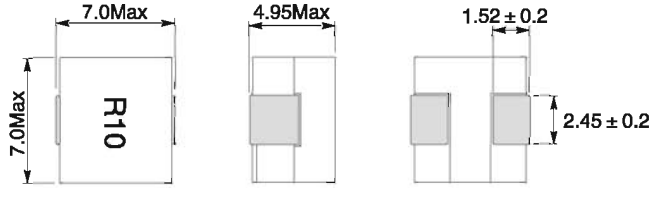
APPLICATIONS:

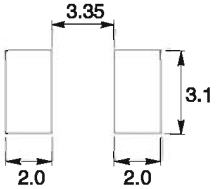
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 ℃ (mΩ)
HCB0705R1-72NK	72	51	43	65	50	0.25 ± 8%
HCB0705R1-R10K	105	78	43	44	34	0.25 ± 8%
HCB0705R1-R12K	120	86	43	37	30	0.25 ± 8%
HCB0705R1-R15K	150	108	43	30	24	0.25 ± 8%
HCB0705R1-R18K	180	130	43	25	20	0.25 ± 8%
HCB0705R1-R22K	226	159	43	20	16	0.25 ± 8%
HCB0705R2-72NK	72	51	38	65	50	0.32 ± 7%
HCB0705R2-R10K	105	78	38	44	34	0.32 ± 7%
HCB0705R2-R12K	120	86	38	37	30	0.32 ± 7%
HCB0705R2-R15K	150	108	38	30	24	0.32 ± 7%
HCB0705R2-R18K	180	130	38	25	20	0.32 ± 7%
HCB0705R2-R22K	226	159	38	20	16	0.32 ± 7%
HCB0705R3-72NK	72	51	32	65	50	0.46 ± 6%
HCB0705R3-R10K	105	78	32	44	34	0.46 ± 6%
HCB0705R3-R12K	120	86	32	37	30	0.46 ± 6%
HCB0705R3-R15K	150	108	32	30	24	0.46 ± 6%
HCB0705R3-R18K	180	130	32	25	20	0.46 ± 6%
HCB0705R3-R22K	226	159	32	20	16	0.46 ± 6%

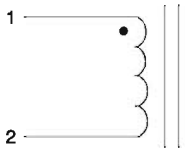
DIMENSIONS(mm) :





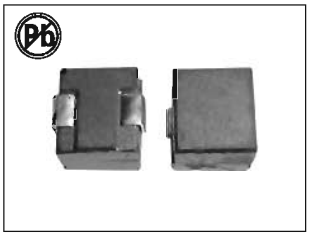
Recommended pad layout

SCHEMATIC :



NOTES:

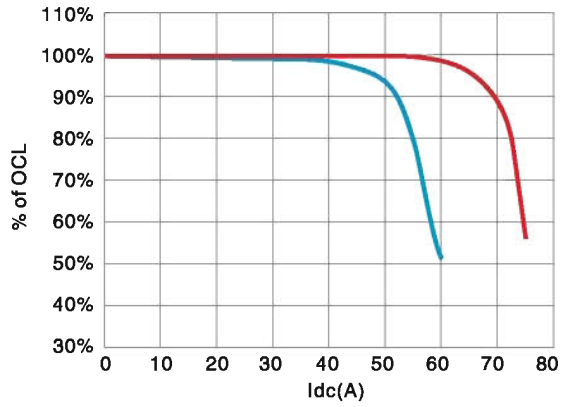
- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃



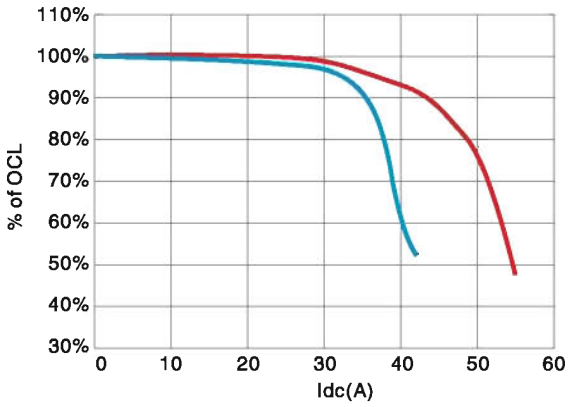
HIGH CURRENT POWER INDUCTORS
HCB0705 SERIES

INDUCTANCE CHARACTERISICS:

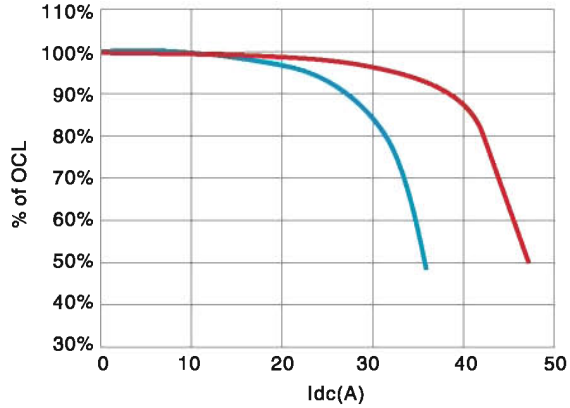
HCB0705RX-72NK



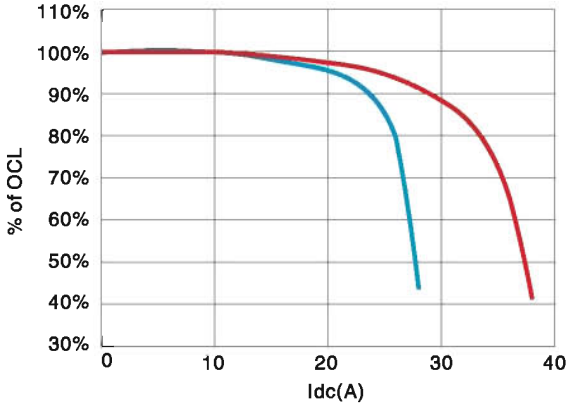
HCB0705RX-R10K



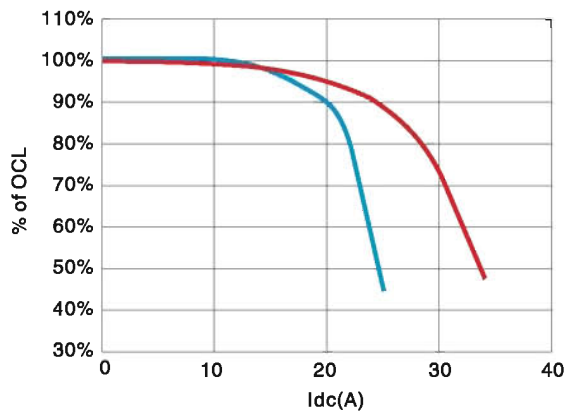
HCB0705RX-R12K



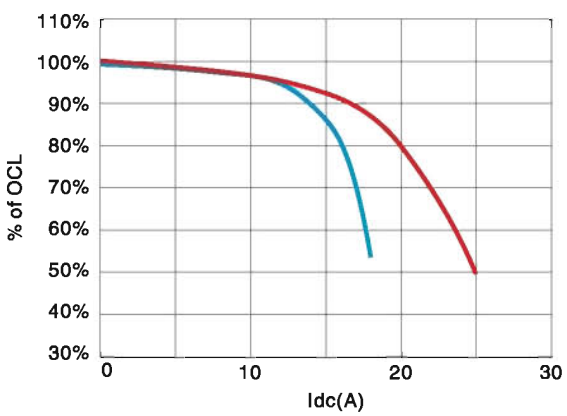
HCB0705RX-R15K



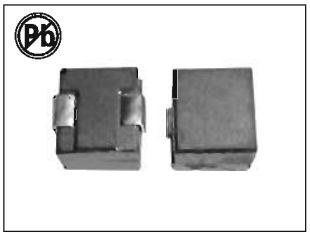
HCB0705RX-R18K



HCB0705RX-R22K



+25℃ +125℃



HIGH CURRENT POWER INDUCTORS

HCB0805 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 32nH to 200nH
- Current range from 20A to 110A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

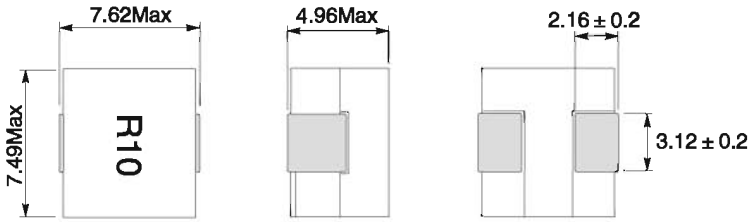
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

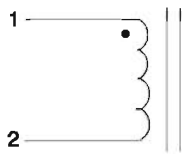
ELECTRICAL CHARACTERISTICS:

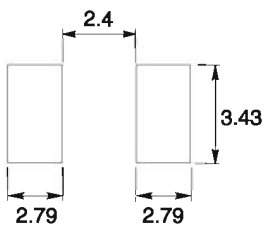
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 ℃ (mΩ)
HCB0805R1-32NK	32	23	65	110	95	0.17±8%
HCB0805R1-58NK	58	42	65	83	61	0.17±8%
HCB0805R1-72NK	72	52	65	67	49	0.17±8%
HCB0805R1-R10K	100	72	65	50	35	0.17±8%
HCB0805R1-R20K	200	144	65	20	16	0.17±8%

DIMENSIONS(mm) :



SCHEMATIC :

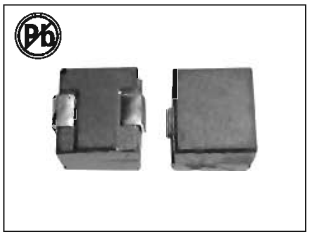




Recommended pad layout

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

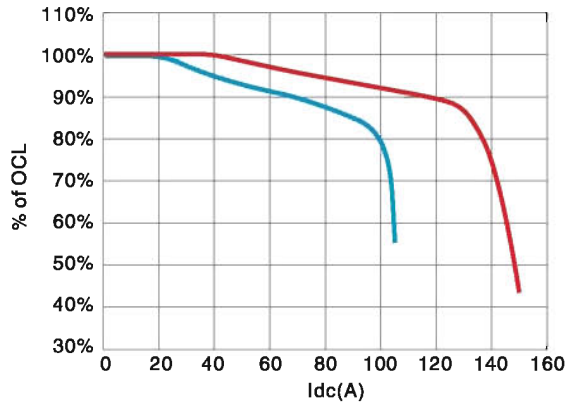


HIGH CURRENT POWER INDUCTORS

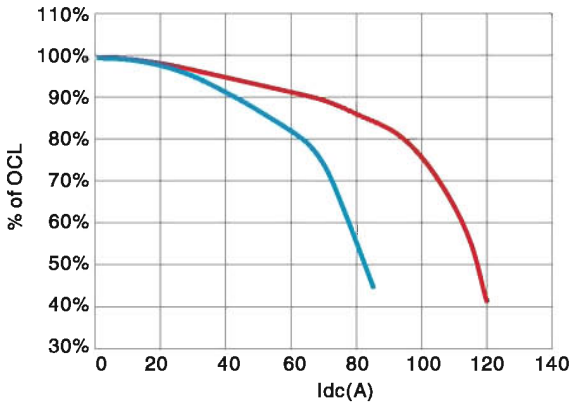
HCB0805 SERIES

INDUCTANCE CHARACTERISICS:

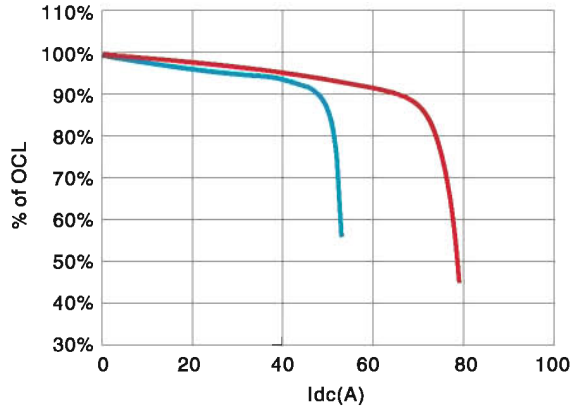
HCB0805R1-32NK



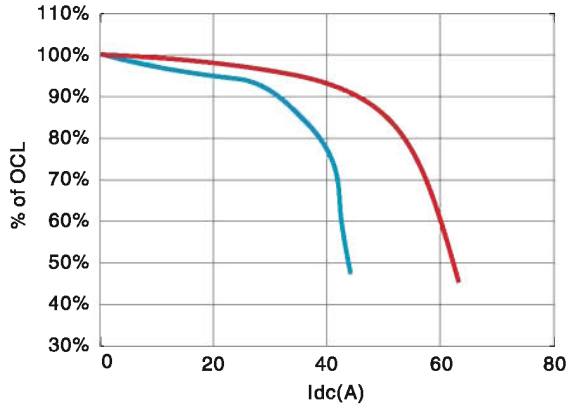
HCB0805R1-58NK



HCB0805R1-72NK



HCB0805R1-R10K



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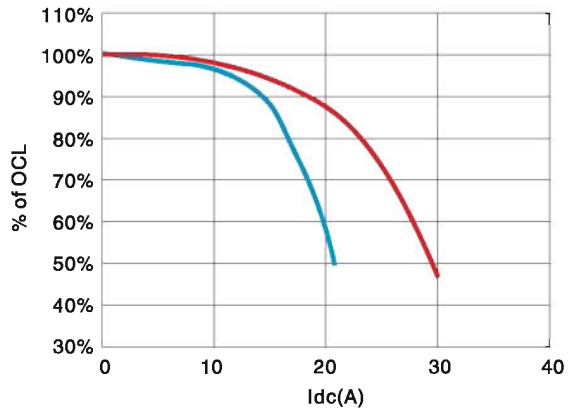
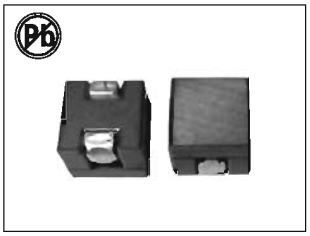




HIGH CURRENT POWER INDUCTORS

HCB0906 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 100nH to 300nH
- Current range from 32.5A to 94A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

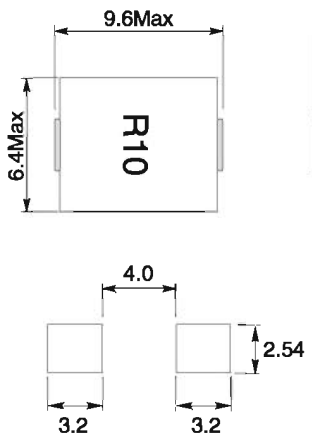
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

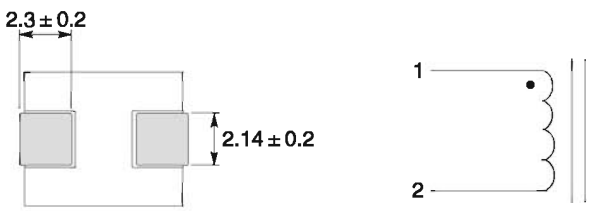
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB0906R1-R10K	100	72	51	94	81	0.29±5%
HCB0906R1-R12K	120	86	51	79	68	0.29±5%
HCB0906R1-R15K	150	108	51	65	54.5	0.29±5%
HCB0906R1-R22K	220	155	51	44	37.5	0.29±5%
HCB0906R1-R28K	280	200	51	34	29	0.29±5%
HCB0906R1-R30K	300	216	51	32.5	27.5	0.29±5%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

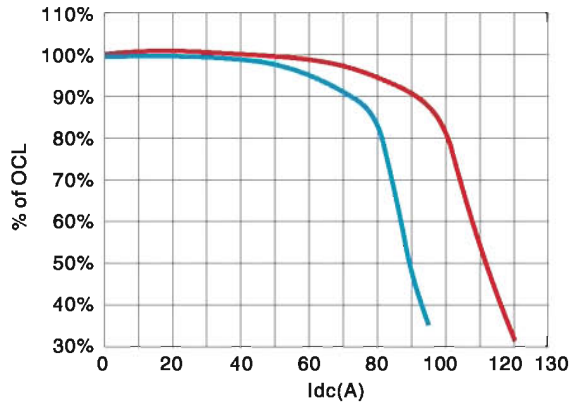
- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

HIGH CURRENT POWER INDUCTORS

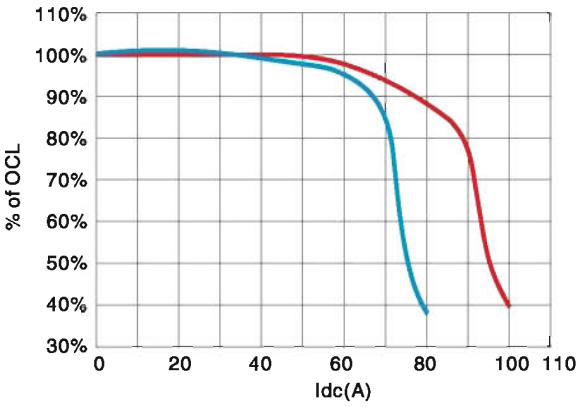
HCB0906 SERIES

INDUCTANCE CHARACTERISICS:

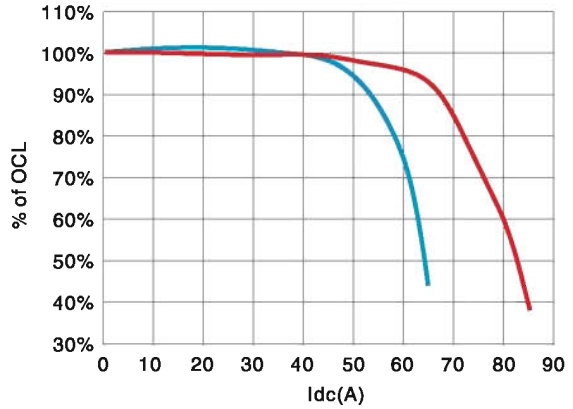
HCB0906R1-R10K



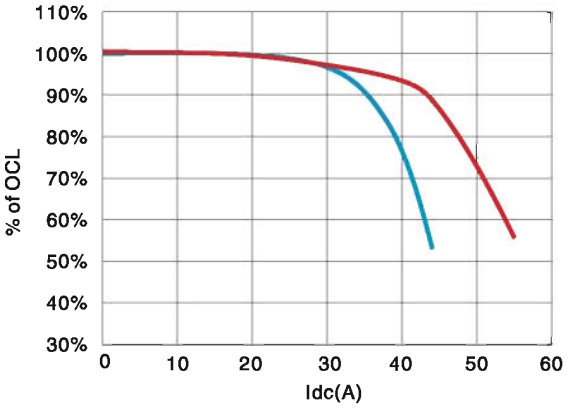
HCB0906R1-R12K



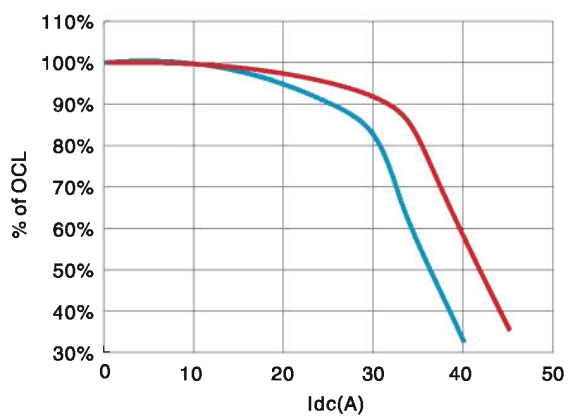
HCB0906R1-R15K



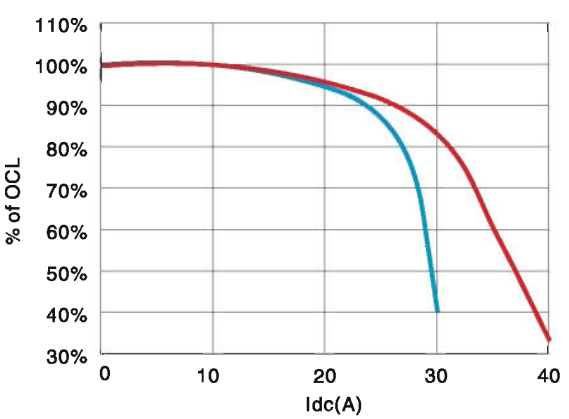
HCB0906R1-R22K



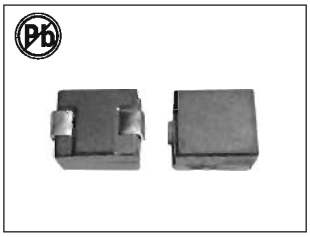
HCB0906R1-R28K



HCB0906R1-R30K



+25℃ +125℃



HIGH CURRENT POWER INDUCTORS

HCB1005 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 80nH to 220nH
- Current range from 33A to 90A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

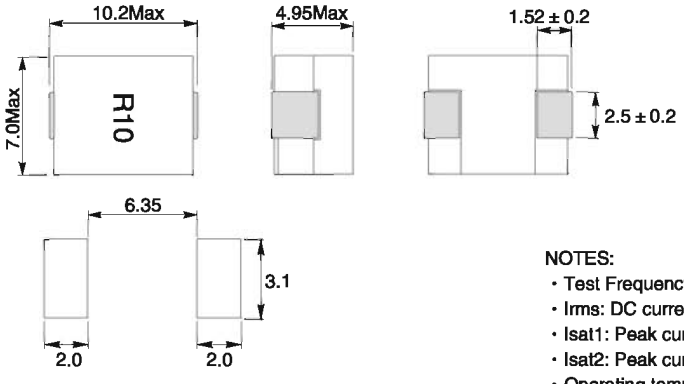
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

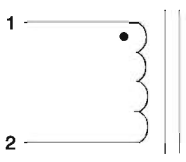
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB1005R1-80NK	80	60	53	90	64	0.39±7.5%
HCB1005R1-R10K	100	72	53	73	57	0.39±7.5%
HCB1005R1-R12K	120	86	53	60	48	0.39±7.5%
HCB1005R1-R15K	150	108	53	47	37	0.39±7.5%
HCB1005R1-R22K	220	158	53	33	26	0.39±7.5%
HCB1005R2-80NK	80	60	50	90	64	0.47±6.5%
HCB1005R2-R10K	100	72	50	73	57	0.47±6.5%
HCB1005R2-R12K	120	86	50	60	48	0.47±6.5%
HCB1005R2-R15K	150	108	50	47	37	0.47±6.5%
HCB1005R2-R22K	220	158	50	33	26	0.47±6.5%
HCB1005R3-80NK	80	60	50	90	64	0.55±5.4%
HCB1005R3-R10K	100	72	50	73	57	0.55±5.4%
HCB1005R3-R12K	120	86	50	60	48	0.55±5.4%
HCB1005R3-R15K	150	108	50	47	37	0.55±5.4%
HCB1005R3-R22K	220	158	50	33	26	0.55±5.4%
HCB1005R4-80NK	80	60	53	90	64	0.31±7.0%
HCB1005R4-R10K	100	72	53	73	57	0.31±7.0%
HCB1005R4-R12K	120	86	53	60	48	0.31±7.0%
HCB1005R4-R15K	150	108	53	47	37	0.31±7.0%
HCB1005R4-R22K	220	158	53	33	26	0.31±7.0%

DIMENSIONS(mm) :



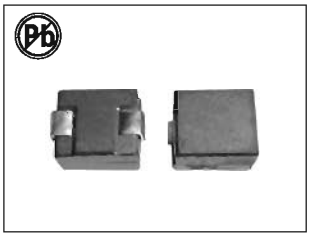
Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

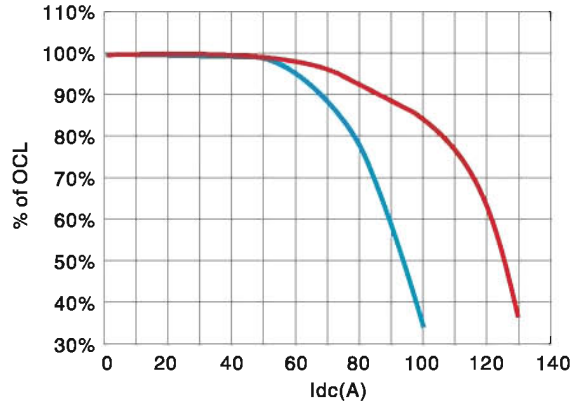


HIGH CURRENT POWER INDUCTORS

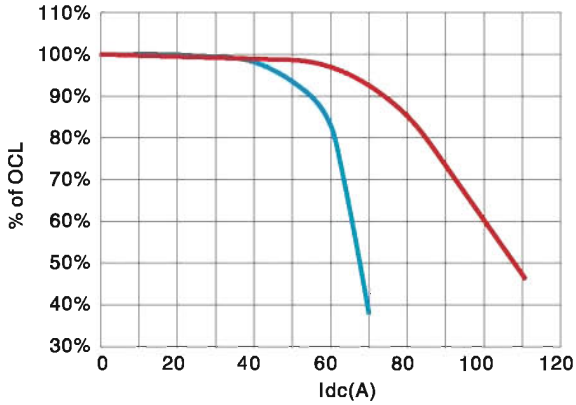
HCB1005 SERIES

INDUCTANCE CHARACTERISICS:

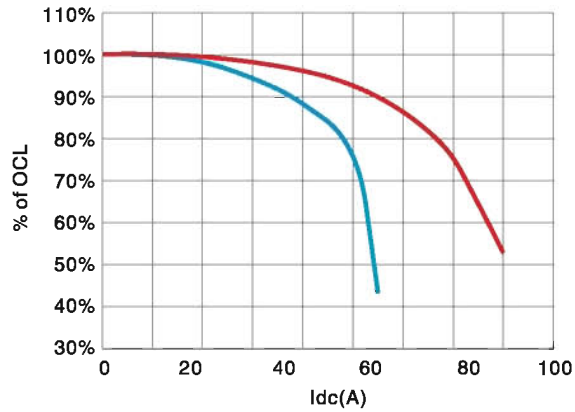
HCB1005RX-80NK



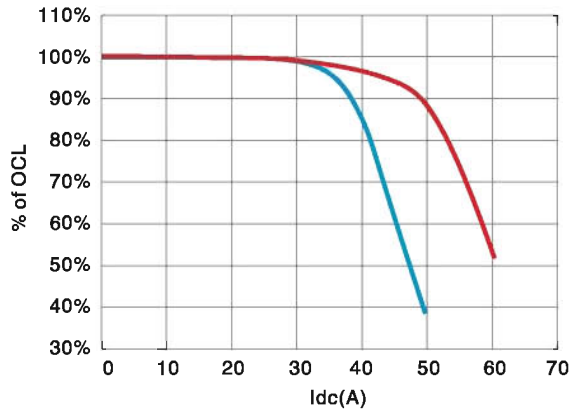
HCB1005RX-R10K



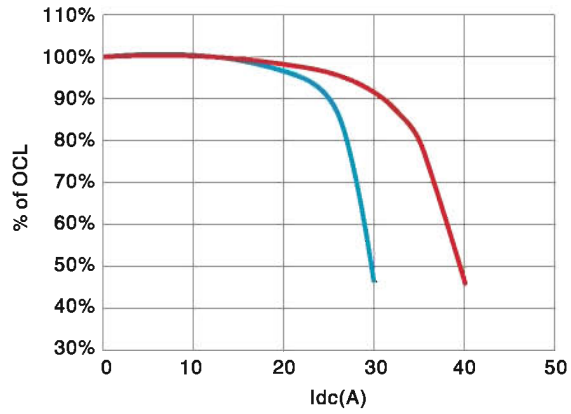
HCB1005RX-R12K

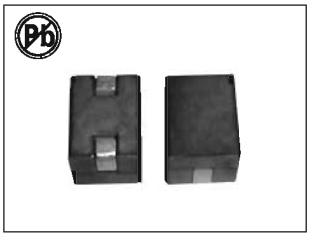


HCB1005RX-R15K



HCB1005RX-R22K





HIGH CURRENT POWER INDUCTORS

HCB1007 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 115nH to 470nH
- Current range from 23.5A to 94A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

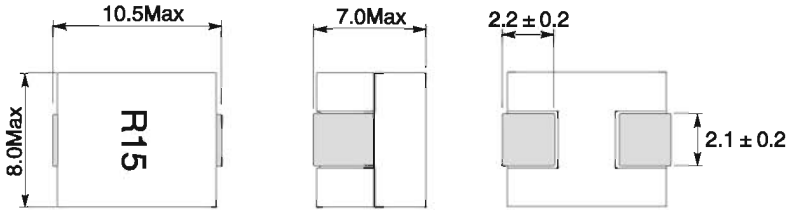
APPLICATIONS:

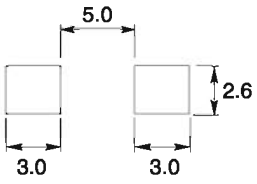
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 ℃ (mΩ)
HCB1007R1-R11K	115	83	61	94	86	0.29±5%
HCB1007R1-R15K	150	108	61	75	60	0.29±5%
HCB1007R1-R18K	180	129	61	60	50	0.29±5%
HCB1007R1-R22K	220	158	61	50	40	0.29±5%
HCB1007R1-R27K	270	194	61	41	33	0.29±5%
HCB1007R1-R30K	300	216	61	35	30	0.29±5%
HCB1007R1-R33K	330	237	61	33	26.5	0.29±5%
HCB1007R1-R39K	390	280	61	28	22.5	0.29±5%
HCB1007R1-R47K	470	338	61	23.5	19	0.29±5%

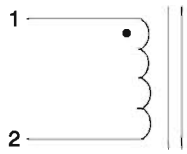
DIMENSIONS(mm) :





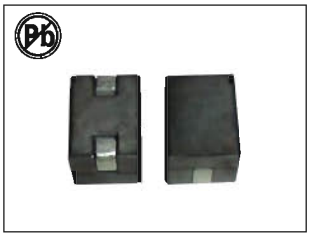
Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

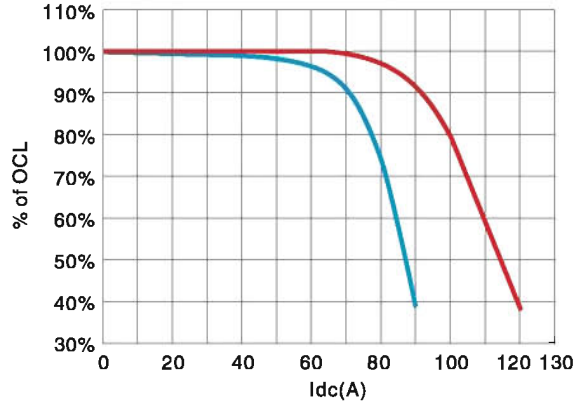


HIGH CURRENT POWER INDUCTORS

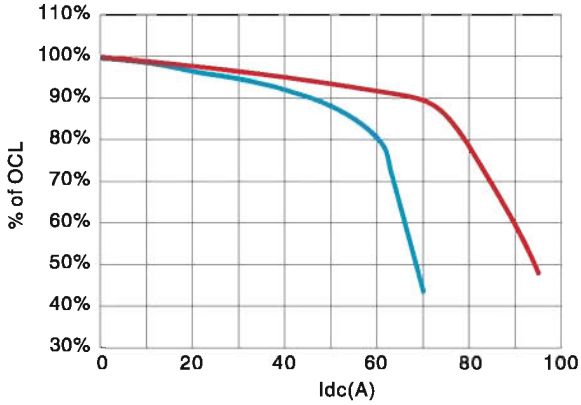
HCB1007 SERIES

INDUCTANCE CHARACTERISICS:

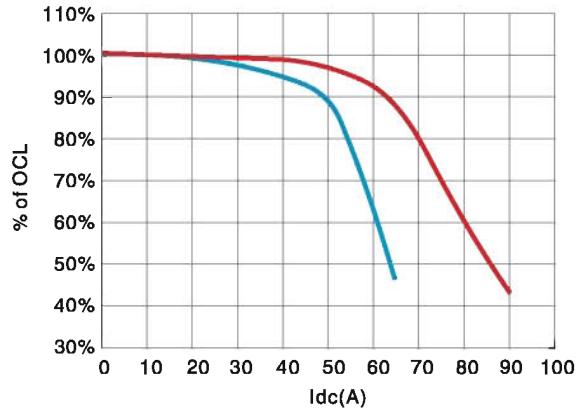
HCB1007R1-R11K



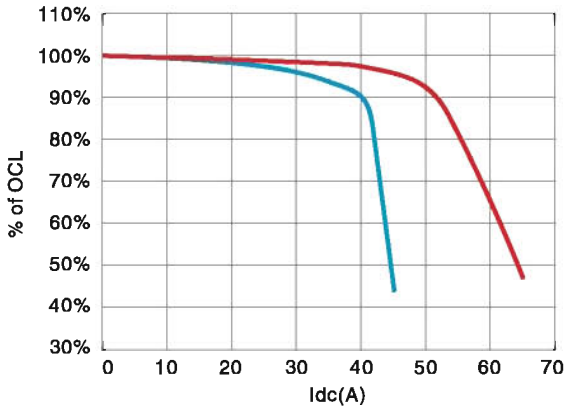
HCB1007R1-R15K



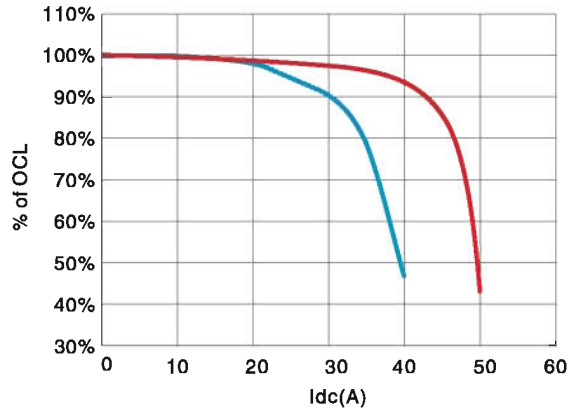
HCB1007R1-R18K



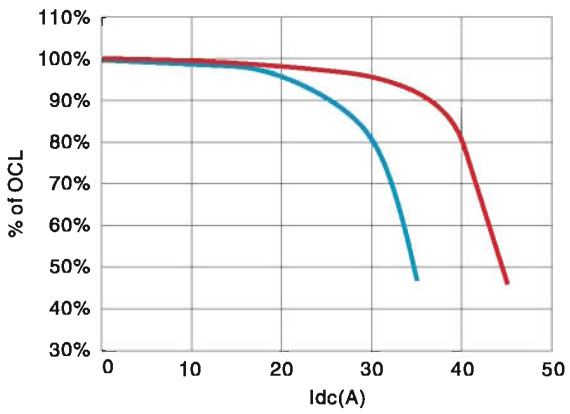
HCB1007R1-R22K



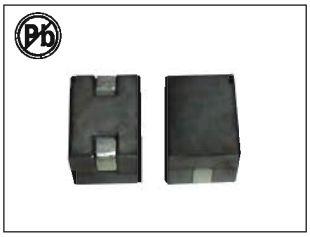
HCB1007R1-R27K



HCB1007R1-R30K



+25℃ +125℃

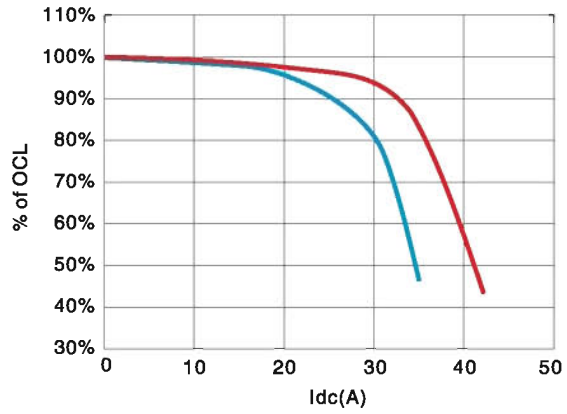


HIGH CURRENT POWER INDUCTORS

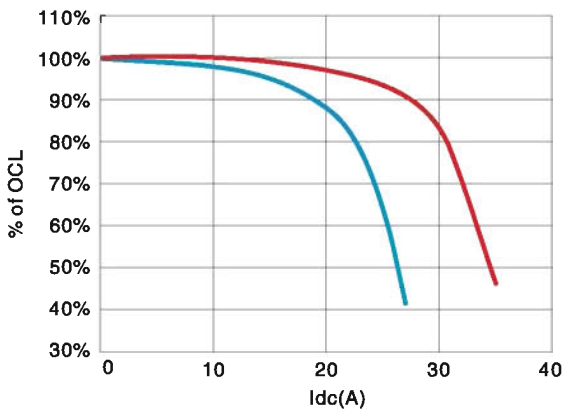
HCB1007 SERIES

INDUCTANCE CHARACTERISICS:

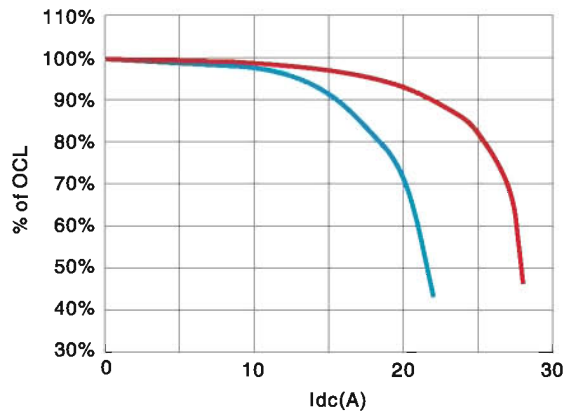
HCB1007R1-R33K



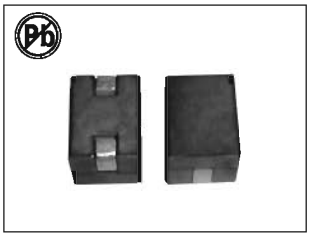
HCB1007R1-R39K



HCB1007R1-R47K



+25℃ +125℃



HIGH CURRENT POWER INDUCTORS

HCB1008 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 120nH to 220nH
- Current range from 58A to 95A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

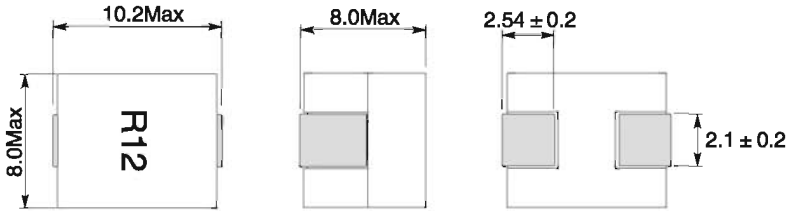
APPLICATIONS:

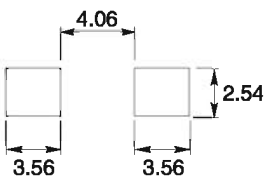
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 ℃ (mΩ)
HCB1008R1-R12K	120	86.4	68	95	77	0.18±5%
HCB1008R1-R15K	150	108	68	79	66	0.18±5%
HCB1008R1-R18K	180	129.6	68	62	52	0.18±5%
HCB1008R1-R22K	220	158.4	68	58	47	0.18±5%

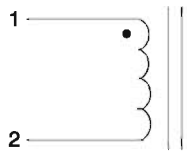
DIMENSIONS(mm) :





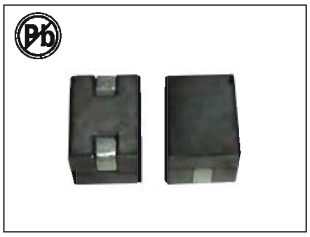
Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

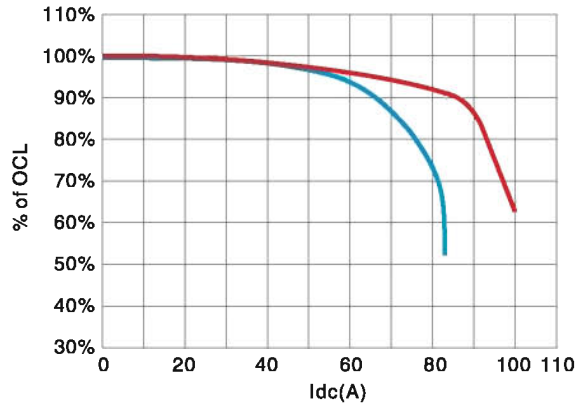


HIGH CURRENT POWER INDUCTORS

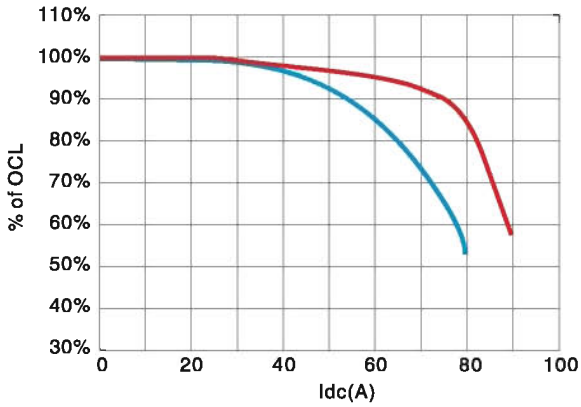
HCB1008 SERIES

INDUCTANCE CHARACTERISICS:

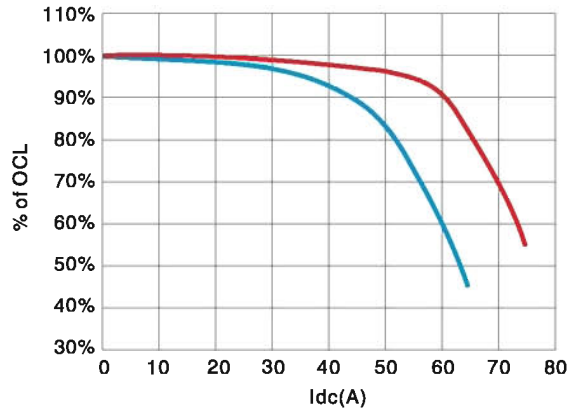
HCB1008R1-R12K



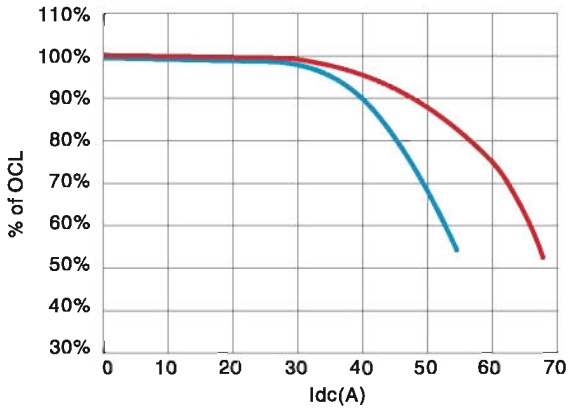
HCB1008R1-R15K



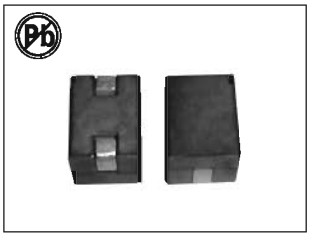
HCB1008R1-R18K



HCB1008R1-R22K



+25℃ +125℃



HIGH CURRENT POWER INDUCTORS

HCB1107 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 120nH to 510nH
- Current range from 18A to 90A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

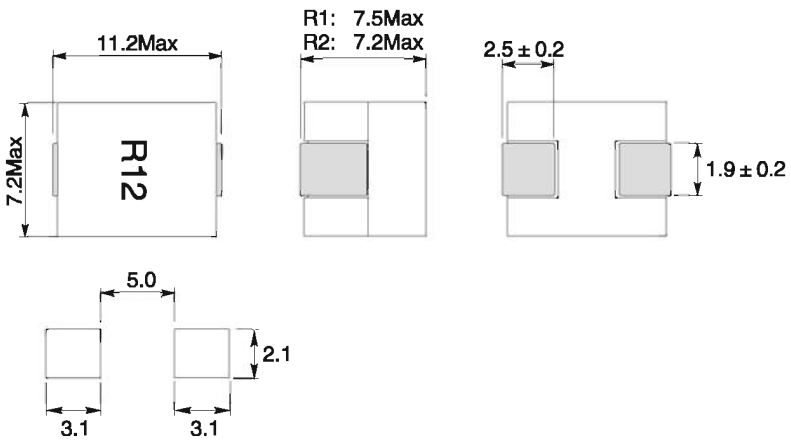
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

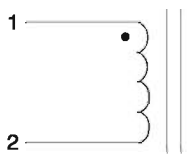
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB1107R1-R12K	120	86	55	90	72	0.29±5%
HCB1107R1-R15K	150	108	55	70	56	0.29±5%
HCB1107R1-R23K	230	166	55	45	36	0.29±5%
HCB1107R1-R30K	300	217	55	35	28	0.29±5%
HCB1107R1-R40K	400	288	55	25	20	0.29±5%
HCB1107R1-R51K	510	364	55	18	14.5	0.29±5%
HCB1107R2-R12K	120	86	42	90	72	0.47±6%
HCB1107R2-R15K	150	108	42	70	56	0.47±6%
HCB1107R2-R23K	230	166	42	45	36	0.47±6%
HCB1107R2-R30K	300	217	42	35	28	0.47±6%
HCB1107R2-R40K	400	288	42	25	20	0.47±6%
HCB1107R2-R51K	510	364	42	18	14.5	0.47±6%

DIMENSIONS(mm) :



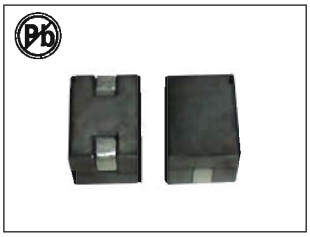
Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

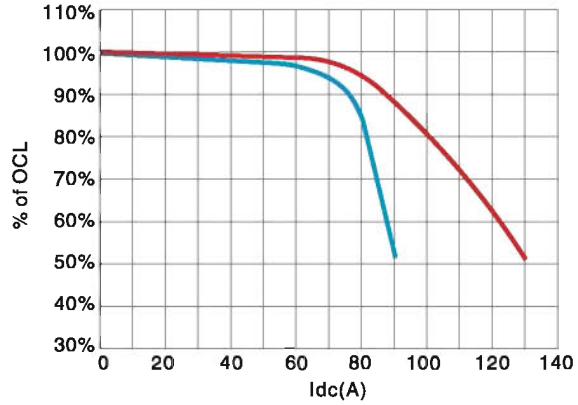


HIGH CURRENT POWER INDUCTORS

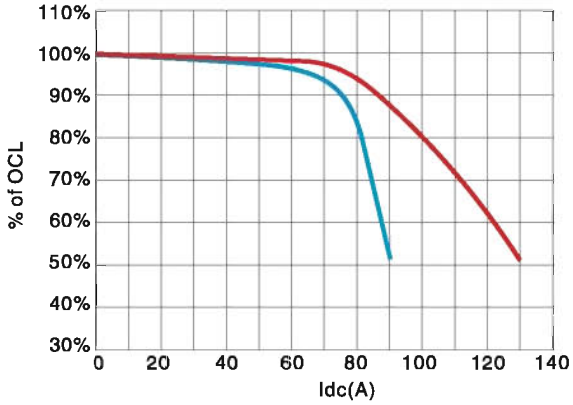
HCB1107 SERIES

INDUCTANCE CHARACTERISICS:

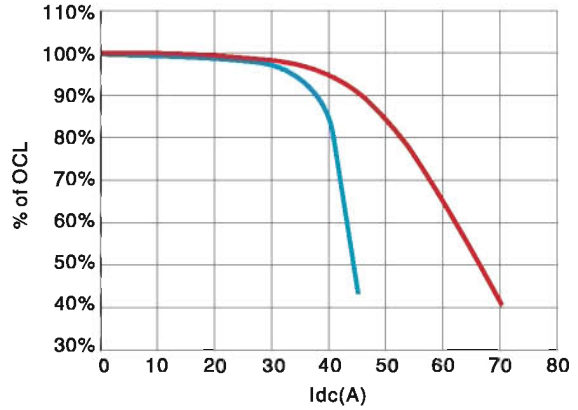
HCB1107RX–R12K



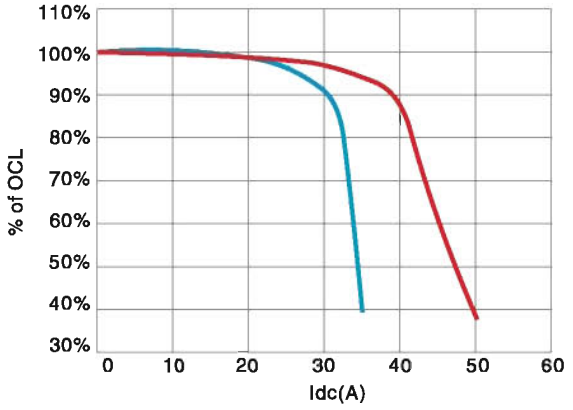
HCB1107RX–R15K



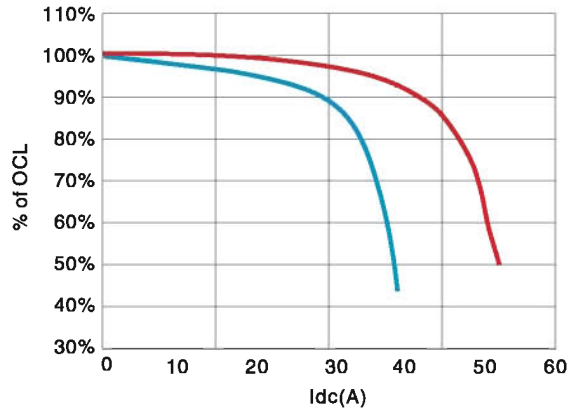
HCB1107RX–R23K



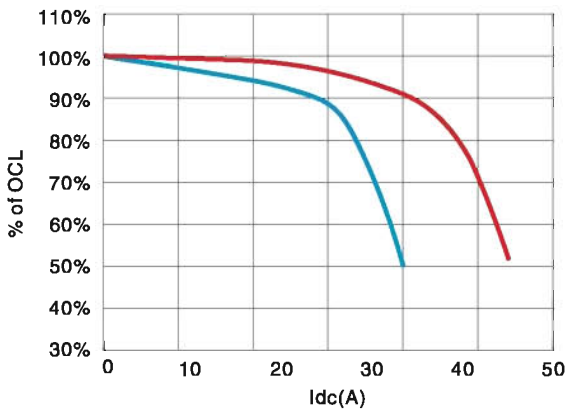
HCB1107RX–R30K



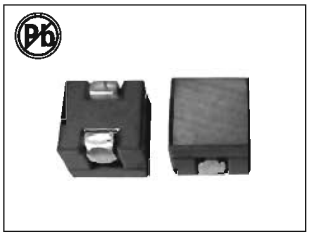
HCB1107RX–R40K



HCB1107RX–R51K



+25℃ +125℃



HIGH CURRENT POWER INDUCTORS

HCB1208 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 150nH to 250nH
- Current range from 55A to 85A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

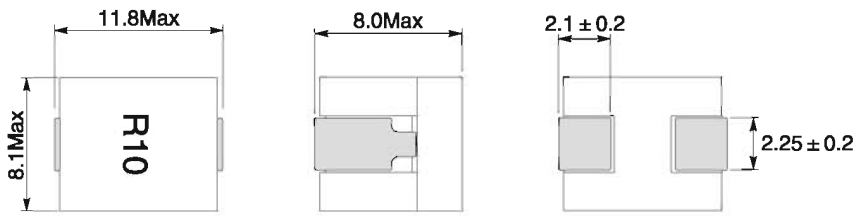
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

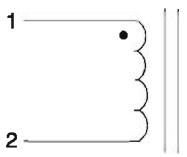
ELECTRICAL CHARACTERISTICS:

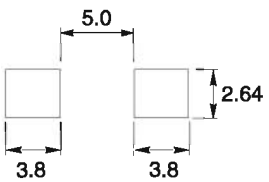
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB1208R1-R15K	150	114	50	85	72	0.29±5%
HCB1208R1-R18K	180	137	50	72	63	0.29±5%
HCB1208R1-R21K	210	160	50	65	55	0.29±5%
HCB1208R1-R23K	230	176	50	61	50	0.29±5%
HCB1208R1-R25K	250	191	50	55	44	0.29±5%

DIMENSIONS(mm) :



SCHEMATIC :

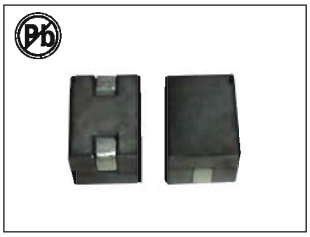




Recommended pad layout

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

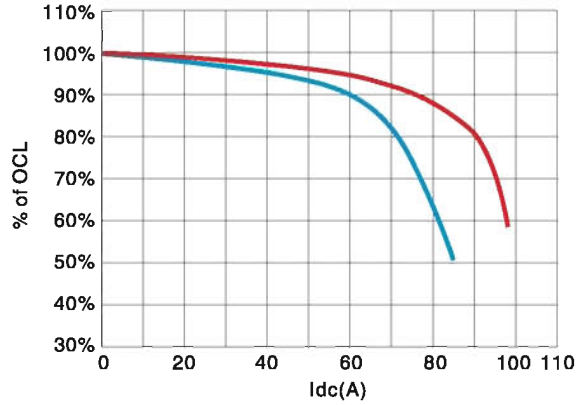


HIGH CURRENT POWER INDUCTORS

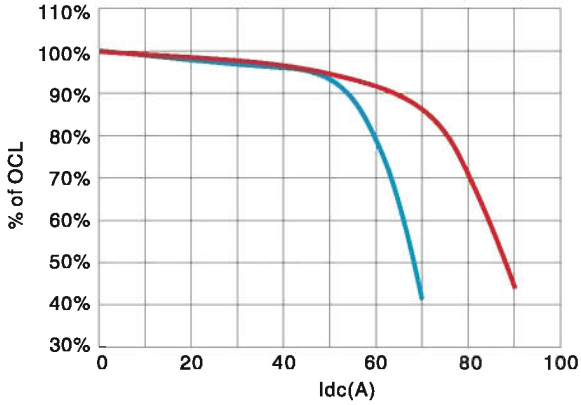
HCB1208 SERIES

INDUCTANCE CHARACTERISICS:

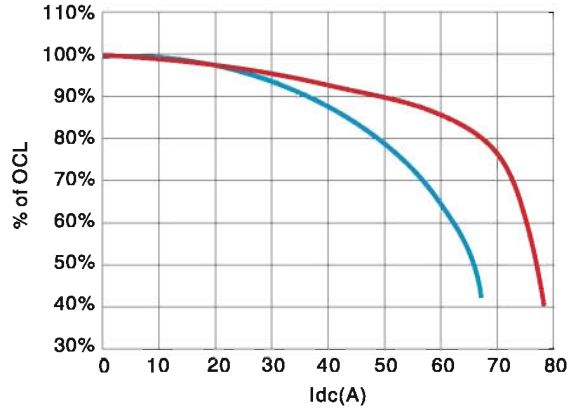
HCB1208R1-R15K



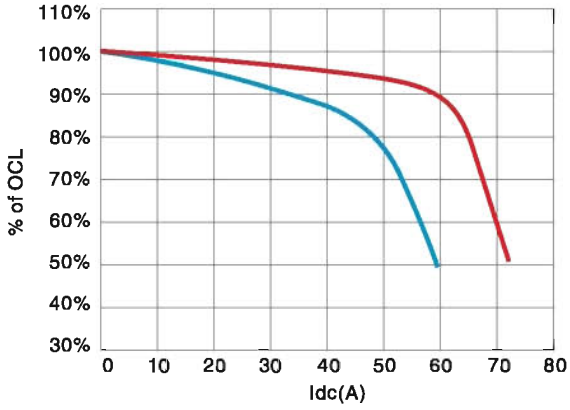
HCB1208R1-R18K



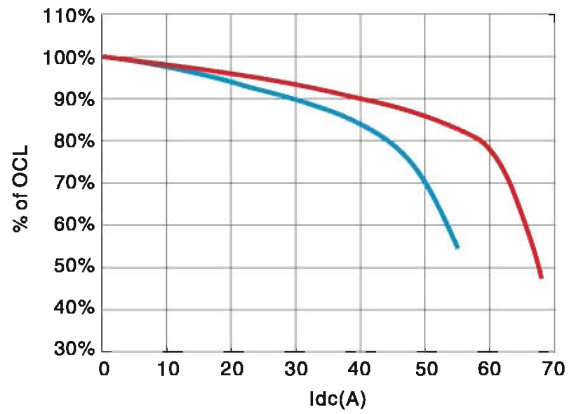
HCB1208R1-R21K



HCB1208R1-R23K



HCB1208R1-R25K



HIGH CURRENT POWER INDUCTORS

HCB1211 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 230nH to 540nH
- Current range from 26A to 60A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

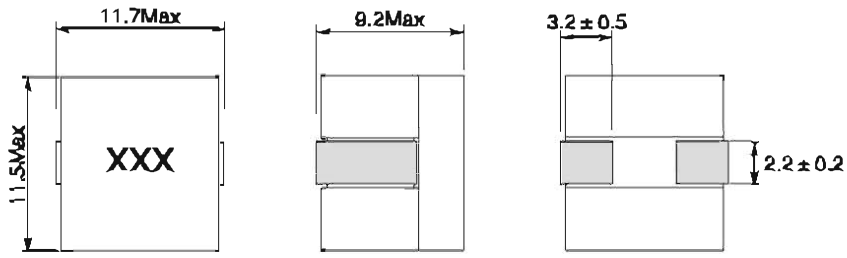
APPLICATIONS:

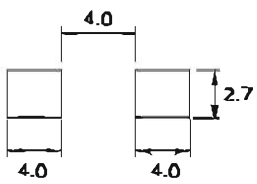
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25℃ (mΩ)
HCB1211R1-R23K	230	184	40	60	0.3±7%
HCB1211R1-R32K	320	256	40	45	0.3±7%
HCB1211R1-R38K	380	304	40	40	0.3±7%
HCB1211R1-R46K	460	368	40	32	0.3±7%
HCB1211R1-R54K	540	432	40	26	0.3±7%

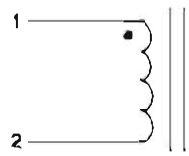
DIMENSIONS(mm) :





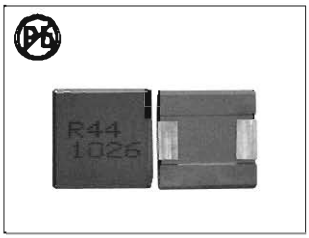
Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat: Peak current for approximately 20% rolloff at +25℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃



HIGH CURRENT POWER INDUCTORS

HCB1313 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 210nH to 520nH
- Current range from 13A to 71A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

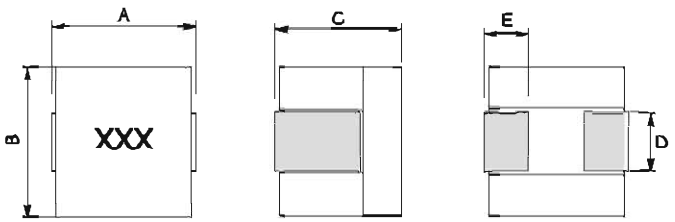
APPLICATIONS:

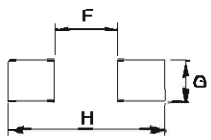
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25 ℃ (mΩ)
HCB1313R1-R22K	220	176	50	40	0.155 ± 10%
HCB1313R1-R28K	280	224	50	30	0.155 ± 10%
HCB1313R1-R31K	310	248	50	24	0.155 ± 10%
HCB1313R1-R40K	400	320	50	18	0.155 ± 10%
HCB1313R1-R52K	520	416	50	13	0.155 ± 10%
HCB1313R2-R21K	210	168	45	71	0.32 ± 9.4%
HCB1313R2-R26K	260	208	45	60	0.32 ± 9.4%
HCB1313R2-R32K	320	256	45	50	0.32 ± 9.4%
HCB1313R2-R44K	440	352	45	35	0.32 ± 9.4%
HCB1313R2-R50K	500	400	45	28	0.32 ± 9.4%

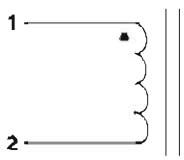
DIMENSIONS(mm) :





Recommended pad layout

SCHEMATIC :

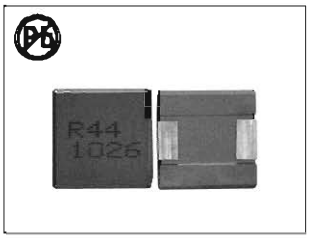


Dimensions

Part No.	A	B	C	D	E	F	G	H
R1	13.5max	13.2max	5.3max	5.0 ± 0.2	2.0 ± 0.2	8.0	5.5	14.0
R2	13.46max	13.0max	8.0max	5.0 ± 0.2	2.54 ± 0.3	7.11	7.62	13.47

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat: Peak current for approximately 20% rolloff at +25℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃



HIGH CURRENT POWER INDUCTORS

HCB1413 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 300nH to 660nH
- Current range from 24A to 60A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

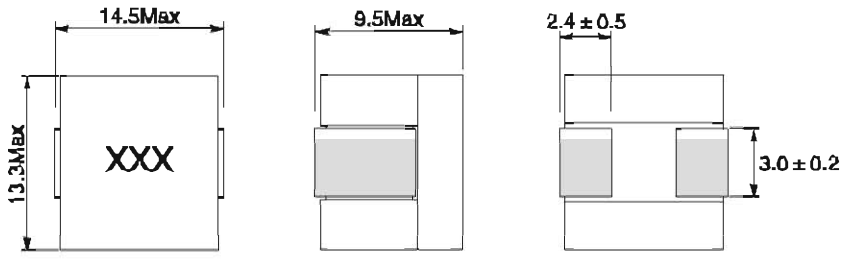
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

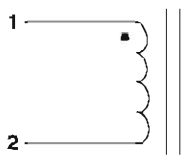
ELECTRICAL CHARACTERISTICS:

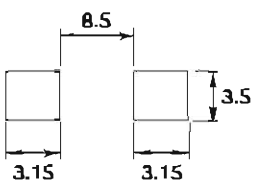
Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25℃ (mΩ)
HCB1413R1-R30K	300	240	45	60	0.25±7%
HCB1413R1-R36K	360	288	45	52	0.25±7%
HCB1413R1-R45K	450	360	45	43	0.25±7%
HCB1413R1-R53K	530	424	45	34	0.25±7%
HCB1413R1-R68K	680	544	45	24	0.25±7%

DIMENSIONS(mm) :



SCHEMATIC :





Recommended pad layout

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat: Peak current for approximately 20% rolloff at +25℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS0603 SERIES

FEATURES:

- Current up to 1.0A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs .
- OA equipment.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

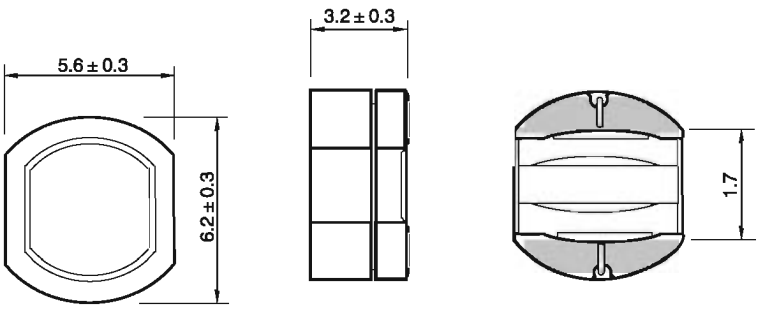
Part Number SDRS0603-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.14	1.00
120M	12	0.16	0.94
150M	15	0.18	0.86
180M	18	0.25	0.78
220M	22	0.32	0.76
270M	27	0.36	0.64
330M	33	0.41	0.61
390M	39	0.47	0.53
470M	47	0.51	0.50
560M	56	0.72	0.46
680M	68	0.82	0.42
820M	82	0.82	0.42
101M	100	0.82	0.42
121M	120	0.82	0.42
151M	150	0.82	0.42
181M	180	0.82	0.42
221M	220	0.82	0.42
271M	270	0.82	0.42
331M	330	0.82	0.42
391M	390	0.82	0.42
471M	470	0.82	0.42
561M	560	0.82	0.42
681M	680	0.82	0.42
821M	820	0.82	0.42

Note:1. K=±10%,M=±20%,N=±30%

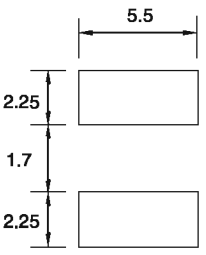
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed
  DC current is decreased 10% against its initial value
- Operating temperature: -40℃ to +85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Ordering information:
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ±20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Notel:All specification subject to change without noticed.

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS0704 SERIES

FEATURES:

- Current up to 1.65A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs .
- OA equipment.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

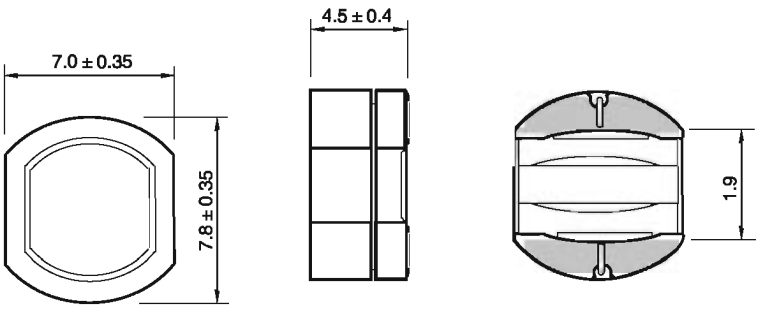
Part Number SDRS0704-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.07	1.65
120M	12	0.07	1.57
150M	15	0.08	1.39
180M	18	0.10	1.9
220M	22	0.13	1.12
270M	27	0.16	1.06
330M	33	0.18	0.97
390M	39	0.18	0.91
470M	47	0.27	0.80
560M	56	0.29	0.76
680M	68	0.33	0.68
820M	82	0.43	0.62
101M	100	0.49	0.55
121M	120	0.68	0.49
151M	150	0.94	0.44
181M	180	1.00	0.40
221M	220	1.18	0.36
271M	270	1.30	0.33
331M	330	1.30	0.33
391M	390	1.30	0.33
471M	470	1.30	0.33
561M	560	1.30	0.33
681M	680	1.30	0.33
821M	820	1.30	0.33

Note:1. K=±10%,M=±20%,N=±30%

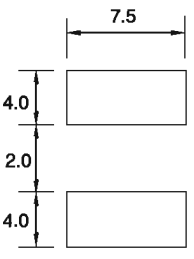
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: -40℃ to +85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Ordering information:
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ±20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Notel:All specification subject to change without noticed.

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS1005 SERIES

FEATURES:

- Current up to 2.06A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs .
- OA equipment.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

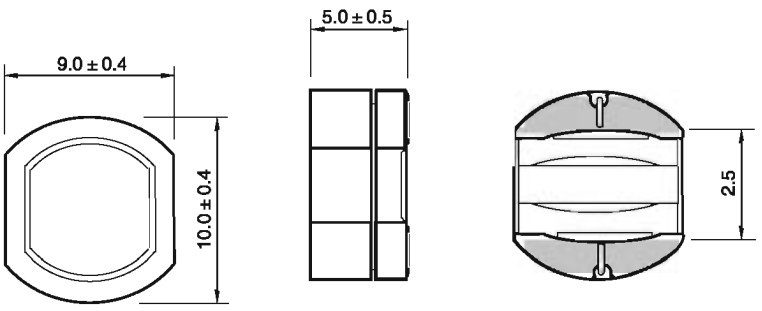
Part Number SDRS1005-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.06	2.06
120M	12	0.07	1.94
150M	15	0.07	1.72
180M	18	0.08	1.58
220M	22	0.08	1.42
270M	27	0.10	1.32
330M	33	0.11	1.16
390M	39	0.12	1.10
470M	47	0.14	1.00
560M	56	0.19	0.93
680M	68	0.21	0.85
820M	82	0.28	0.79
101M	100	0.34	0.72
121M	120	0.37	0.63
151M	150	0.51	0.55
181M	180	0.57	0.50
221M	220	0.78	0.47
271M	270	0.87	0.41
331M	330	1.20	0.37
391M	390	1.34	0.5
471M	470	1.50	0.33
561M	560	1.50	0.33
681M	680	1.50	0.33
821M	820	1.50	0.33

Note:1. K=±10%,M=±20%,N=±30%

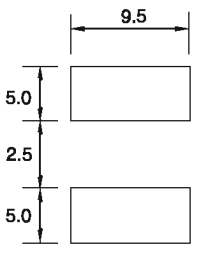
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: -40℃ to +85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Ordering information:
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ±20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Notel:All specification subject to change without noticed.

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS1205 SERIES

FEATURES:

- Current up to 2.65A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs .
- OA equipment.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

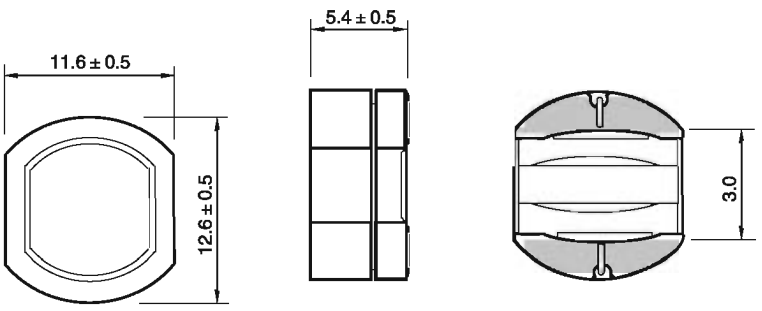
Part Number SDRS1205-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.05	2.65
120M	12	0.05	2.50
150M	15	0.06	2.45
180M	18	0.06	2.40
220M	22	0.07	2.20
270M	27	0.08	2.00
330M	33	0.10	1.80
390M	39	0.11	1.65
470M	47	0.12	1.50
560M	56	0.15	1.38
680M	68	0.17	1.26
820M	82	0.20	1.14
101M	100	0.25	1.05
121M	120	0.28	0.95
151M	150	0.40	0.85
181M	180	0.48	0.77
221M	220	0.52	0.70
271M	270	0.70	0.63
331M	330	0.80	0.57
391M	390	1.08	0.52
471M	470	1.20	0.48
561M	560	1.34	0.44
681M	680	1.78	0.40
821M	820	2.00	0.36

Note:1. K=±10%,M=±20%,N=±30%

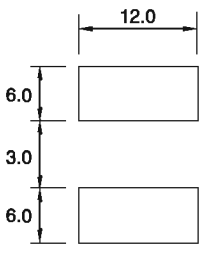
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: -40℃ to +85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Ordering information:
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ±20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



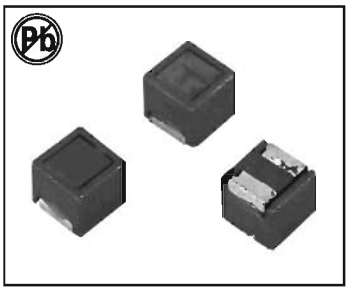
PAD LAYOUT



Notel:All specification subject to change without noticed.

HIGH CURRENT SHIELDED SURFACE-MOUNT WIRE-WOUND INDUCTORS

LQH1210S SERIES



FEATURES:

- Ferrite shielded structure
- High Frequency Design
- Lower DCR permits High Idc
- Available in E12 series
- Excellent Q SRF Values
- Lead free versions
- RoHS compliant
- Excellent Thermal Stability

COMMON APPLICATIONS:

- Modems PDP. LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System,xDSL Filter
- Computer Products and Peripherals

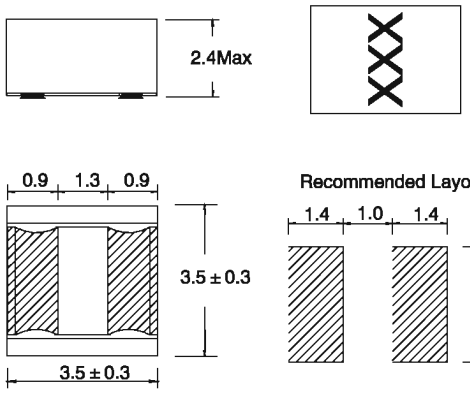
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	L Test Freq (KHz)	Q (Min)	Q Test Freq (MHz)	SRF (MHz)	DCR (Ω Max)	IDC (mAMax)
LQH1210S-1R0M	1.0	1	30	1	120	0.02	1000
LQH1210S-2R2M	2.2	1	30	1	60	0.06	800
LQH1210S-4R7M	4.7	1	35	1	35	0.11	600
LQH1210S-100K	10	1	35	1	22	0.15	300
LQH1210S-220K	22	1	40	1	15	0.32	180
LQH1210S-470K	47	1	45	1	12	0.64	150
LQH1210S-101K	100	1	45	0.796	9.0	1.74	90
LQH1210S-221K	220	1	50	0.796	6.0	4.51	80
LQH1210S-331K	330	1	50	0.796	4.2	8.63	70
LQH1210S-391K	390	1	50	0.796	3.8	9.11	60
LQH1210S-471K	470	1	50	0.796	3.5	9.52	50
LQH1210S-561K	560	1	50	0.796	3.0	10.14	50
LQH1210S-681K	680	1	50	0.796	2.6	11.83	40
LQH1210S-102K	1000	1	50	0.796	2.1	14.3	30
LQH1210S-152K	1500	1	50	0.796	1.7	29.9	25
LQH1210S-222K	2200	1	50	0.796	1.5	36.4	20

Note:1. K=±10%,M=±20%

PHYSICAL CHARACTERISTICS

Dimensions(mm)



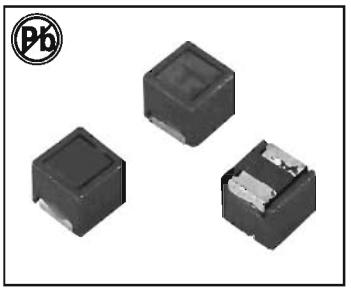
Winding

- Inductance Testing: HP4291A,HP16193A,HP4286A or equivalent
- RDC:QuadTech 1880 Milliohmmeter
- Q- HP4342A
- SRF-HP4191A
- Rated Current L value drop10%typ.at I_{DC}against its initial value
- Temperature rise 40℃ Max Reference ambient temperature
- Solderability: 75% of the terminal electrode shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -55℃ to +125℃

Note: All specifications subject to change without notice.

HIGH CURRENT SHIELDED SURFACE-MOUNT WIRE-WOUND INDUCTORS

LQH2220S SERIES



FEATURES:

- Ferrite shielded structure
- High Frequency Design
- Lower DCR permits High Idc
- Available in E12 series
- Excellent Q SRF Values
- Lead free versions
- RoHS compliant
- Excellent Thermal Stability

COMMON APPLICATIONS:

- Modems PDP. LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System,xDSL Filter
- Computer Products and Peripherals

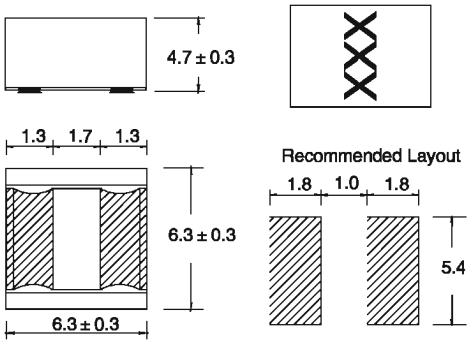
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	L Test Freq (KHz)	Q (Min)	Q Test Freq (MHz)	SRF (MHz)	DCR (Ω Max)	IDC (mAMax)
LQH2220S-R27M	0.27	1	20	1	300	0.007	6000
LQH2220S-R68M	0.68	1	20	1	180	0.010	5300
LQH2220S-1R0M	1.0	1	30	1	150	0.013	4700
LQH2220S-1R5M	1.5	1	30	1	110	0.016	3800
LQH2220S-2R2M	2.2	1	30	1	80	0.019	3300
LQH2220S-3R3M	3.3	1	30	1	40	0.022	2600
LQH2220S-4R7M	4.7	1	30	1	30	0.025	2200
LQH2220S-6R8M	6.8	1	30	1	25	0.029	1800
LQH2220S-100K	10	1	30	1	20	0.036	1600
LQH2220S-150K	15	1	35	1	17	0.069	1300
LQH2220S-220K	22	1	35	1	15	0.087	1100
LQH2220S-470K	33	1	35	1	12	0.14	860
LQH2220S-680K	47	1	35	1	10	0.17	760
LQH2220S-101K	68	1	35	1	7.6	0.29	600
LQH2220S-151K	100	0.1	40	0.796	6.5	0.36	520
LQH2220S-221K	150	0.1	45	0.796	5.5	0.63	420
LQH2220S-331K	220	0.1	45	0.796	4.0	0.79	350
LQH2220S-391K	330	0.1	45	0.796	3.2	1.8	280
LQH2220S-471K	470	0.1	50	0.796	2.5	2.2	240
LQH2220S-681K	680	0.1	50	0.796	2.0	3.9	200
LQH2220S-102K	1000	0.01	50	0.252	1.7	4.9	160
LQH2220S-222K	2200	0.01	50	0.252	1.2	9.4	100
LQH2220S-472K	4700	0.01	50	0.252	0.8	19.5	70
LQH2220S-103K	10000	0.01	50	0.252	0.5	39.7	50

Note:1. K=±10%,M=±20%

PHYSICAL CHARACTERISTICS

Dimensions(mm)

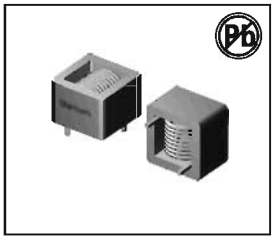


Winding

- Inductance Testing: HP4291A,HP16193A,HP4286A or equivalent
- RDC:QuadTech 1880 Milliohmmeter
- Q- HP4342A
- SRF-HP4191A
- Rated Current L value drop10%typ.at I_{DC}against its initial value
- Temperature rise 40℃ Max Reference ambient temperature
- Solderability: 75% of the terminal electrode shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -55℃ to +125℃

Note: All specifications subject to change without notice.

NO-BOARD TYPE HIGH CURRENT POWER INDUCTORS
HR1312 SERIES



FEATURES:

- Shielded Construction.
- Lowest DCR/μH, in this package size.
- Handles High Transient Current Spikes Without Saturation.
- The Products Contain no Lead and also Support Lead-free Soldering.

COMMON APPLICATIONS:

- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

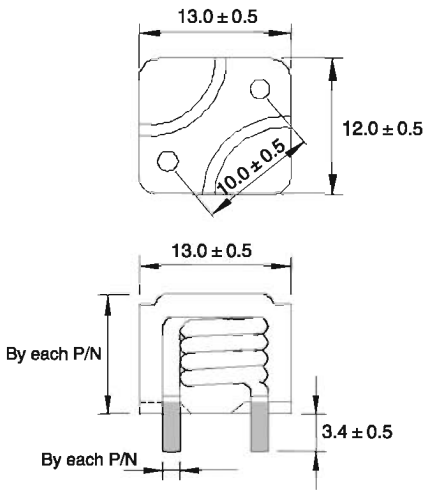
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	C (mm)Max	D (mm) ± 0.1	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
				Typ	Max		
HR1312-R22M	0.22	9	1.7	0.40	0.55	45	60
HR1312-R30M	0.30	9	1.7	0.55	0.70	40	60
HR1312-R33M	0.33	9	1.7	0.55	0.70	40	60
HR1312-R39M	0.39	9	1.7	0.55	0.70	40	60
HR1312-R47M	0.47	10	1.7	0.70	0.80	40	60
HR1312-R50M	0.50	10	1.7	0.70	0.80	40	60
HR1312-R56M	0.56	10	1.7	0.70	0.80	40	60
HR1312-R60M	0.60	10	1.7	0.70	0.80	40	60
HR1312-R68M	0.68	10	1.7	0.70	0.80	40	50
HR1312-R80M	0.80	10	1.7	0.70	0.85	40	50
HR1312-1R0M	1.00	10	1.5	1.20	1.35	30	50
HR1312-1R2M	1.20	10	1.5	1.20	1.50	30	40
HR1312-1R5M	1.50	10	1.4	1.50	1.70	25	30
HR1312-2R0M	2.00	10	1.2	2.90	3.30	17	25
HR1312-2R2M	2.20	10	1.2	2.90	3.30	17	25

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)



Winding

1. All test Data is referenced to 25℃ambient.
2. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
3. Irms will cause the coil temperature rise Approximately ΔT=40℃ without core loss.
4. Isat will cause L0 to drop approximately 20%.
5. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
6. Operating Temperature & Storage Temperature: -25℃ - +125℃.

SMD HIGH CURRENT POWER INDUCTORS

HR SERIES

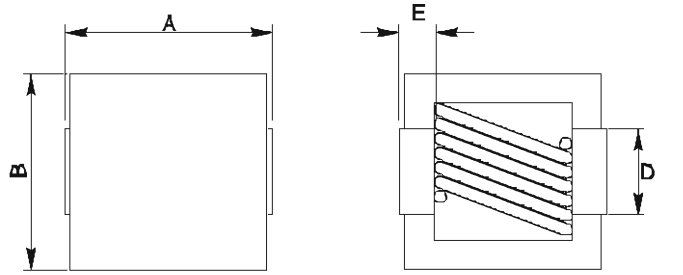
FEATURES:

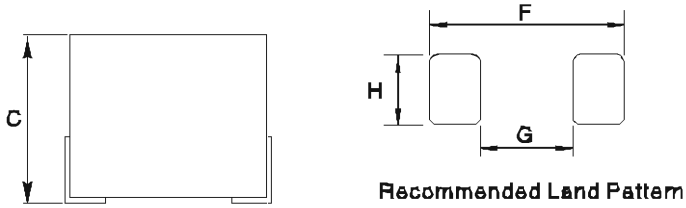
- High current and Low DCR
- Low profile for machine placement
- Minimize electromagnetic interference
- Prevent EMI affect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Power Line Filter for DC–DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS





Recommended Land Pattern

Dimensions(mm)

Part Number	A	B	C	D	E	F	G	H	Packing (Pcs/Reel)
HR0807 Series	7.9 ± 0.3	8.4 ± 0.4	7.0 ± 0.4	2.3 ± 0.2	1.5 ± 0.2	8.5	4.3	2.8	500
HR1009 Series	10.0 ± 0.3	10.9 ± 0.4	9.3 ± 0.5	3.0 ± 0.2	1.6 ± 0.2	10.6	6.2	3.6	400
HR1210 Series	11.4 ± 0.4	12.1 ± 0.4	9.5 ± 0.5	3.5 ± 0.2	2.0 ± 0.2	12.0	6.8	4.1	300

Notes:

1. All test Data is referenced to 25℃ambient.
2. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
3. Test condition: 100KHz,0.1V
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: –25℃ – +125℃.

Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	Irms (A)	Isat (A)	DCR (mΩ)Max
HR0807-R30M	0.3	20.5	36.0	1.54
HR0807-R47M	0.47	19.0	32.0	1.89
HR0807-R56M	0.56	19.0	28.0	1.89
HR0807-R68M	0.68	19.0	23.5	1.89
HR0807-R82M	0.82	17.0	23.0	3.25
HR0807-1R0M	1.0	17.0	24.0	3.25
HR0807-1R5M	1.5	16.5	18.5	4.84
HR0807-2R2M	2.2	16.5	12.5	4.84
HR0807-3R3M	3.3	14.0	8.5	7.15
HR0807-4R7M	4.7	7.5	8.0	13.64
HR0807-6R8M	6.8	5.5	7.5	24.42
HR0807-100M	10	4.4	7.0	44.55
HR1009-R22M	0.22	21.5	60.0	0.66
HR1009-R33M	0.33	21.5	55.0	0.66
HR1009-R47M	0.47	20.5	47.0	0.88
HR1009-R68M	0.68	20.0	38.0	1.49
HR1009-R82M	0.82	20.0	36.0	1.49
HR1009-1R0M	1.0	20.0	27.5	1.49
HR1009-1R5M	1.5	18.0	27.0	2.75
HR1009-2R2M	2.2	16.5	22.0	4.07
HR1009-3R3M	3.3	14.0	15.5	5.94
HR1009-4R7M	4.7	13.0	15.0	9.02
HR1009-6R8M	6.8	11.5	11.0	14.52
HR1009-8R2M	8.2	11.5	8.0	14.52
HR1009-100M	10	9.0	8.0	22.77
HR1210-R22M	0.22	27.0	60.0	0.58
HR1210-R33M	0.33	27.0	55.0	0.58
HR1210-R47M	0.47	26.0	48.0	0.79
HR1210-R68M	0.68	26.0	38.0	0.79
HR1210-R82M	0.82	24.0	36.0	1.29
HR1210-1R0M	1.0	24.0	32.0	1.29
HR1210-R15M	1.5	19.5	27.0	2.31
HR1210-2R2M	2.2	18.0	23.0	3.36
HR1210-3R3M	3.3	17.0	17.0	4.84
HR1210-4R7M	4.7	15.5	17.0	6.99
HR1210-6R8M	6.8	13.0	13.0	9.88
HR1210-8R2M	8.2	13.0	12.0	10.89
HR1210-100M	10.0	9.0	10.0	15.84

Note:1. K= ± 10%,M= ± 20%,N= ± 30%