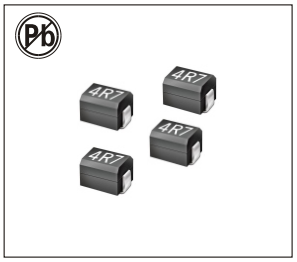
SURFACE–MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1008 SERIES



FEATURES:

- Lead–free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead–free compatible reflow soldering conditions.

APPLICATIONS:

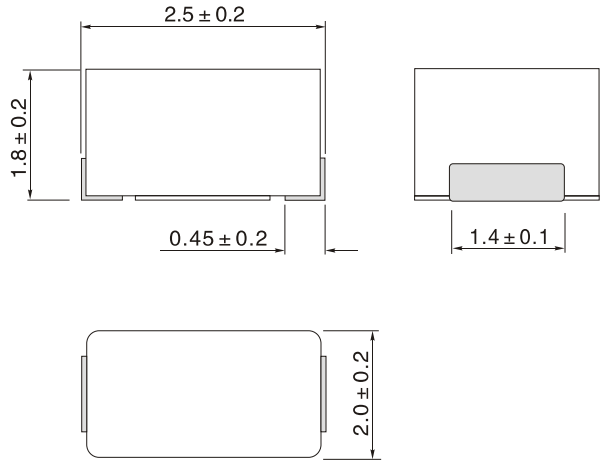
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM1008–10NK	.010	±10	10	2150	0.26	530	100
AISM1008–12NK	.012	±10	15	2050	0.27	500	100
AISM1008–15NK	.015	±10	15	1850	0.31	480	100
AISM1008–18NK	.018	±10	15	1650	0.34	450	100
AISM1008–22NK	.022	±10	15	1550	0.38	420	100
AISM1008–27NK	.027	±10	15	1400	0.42	410	100
AISM1008–33NK	.033	±10	15	1250	0.46	400	100
AISM1008–39NK	.039	±10	20	1100	0.50	380	100
AISM1008–47NK	.047	±10	20	1050	0.56	360	100
AISM1008–56NK	.056	±10	20	950	0.65	340	100
AISM1008–68NK	.068	±10	20	900	0.70	320	100
AISM1008–82NK	.082	±10	20	850	0.75	300	100
AISM1008–R10K	.10	±10	20	700	0.80	280	100
AISM1008–R12K	.12	±10	30	600	0.37	520	25.2
AISM1008–R15K	.15	±10	30	550	0.42	480	25.2
AISM1008–R18K	.18	±10	30	500	0.46	460	25.2
AISM1008–R22K	.22	±10	30	450	0.52	430	25.2
AISM1008–R27K	.27	±10	30	425	0.56	420	25.2
AISM1008–R33K	.33	±10	30	400	0.60	400	25.2
AISM1008–R39K	.39	±10	30	375	0.65	375	25.2
AISM1008–R47K	.47	±10	30	350	0.68	350	25.2
AISM1008–R56K	.56	±10	30	300	0.75	325	25.2
AISM1008–R68K	.68	±10	30	270	0.85	300	25.2
AISM1008–R82K	.82	±10	30	250	1.00	260	25.2
AISM1008–1R0J	1.00	±5	30	220	1.10	245	7.96

Part Number	L μH	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM1008–1R2J	1.2	±5	30	180	1.20	230	7.96
AISM1008–1R5J	1.5	±5	30	135	1.30	200	7.96
AISM1008–1R8J	1.8	±5	30	100	1.45	210	7.96
AISM1008–2R2J	2.2	±5	30	75	1.55	200	7.96
AISM1008–2R7J	2.7	±5	30	55	1.70	195	7.96
AISM1008–3R3J	3.3	±5	30	48	1.90	185	7.96
AISM1008–3R9J	3.9	±5	30	43	2.10	180	7.96
AISM1008–4R7J	4.7	±5	30	40	2.30	175	7.96
AISM1008–5R6J	5.6	±5	25	36	2.50	170	7.96
AISM1008–6R8J	6.8	±5	25	33	2.70	165	7.96
AISM1008–8R2J	8.2	±5	25	30	3.05	160	7.96
AISM1008–100J	10	±5	25	27	3.50	155	2.52
AISM1008–120J	12	±5	25	23	3.80	150	2.52
AISM1008–150J	15	±5	25	20	4.40	140	2.52
AISM1008–180J	18	±5	25	18	4.80	130	2.52
AISM1008–220J	22	±5	25	17	5.50	125	2.52
AISM1008–270J	27	±5	25	16	6.30	115	2.52
AISM1008–330J	33	±5	20	15	7.10	110	2.52
AISM1008–390J	39	±5	20	14	9.50	90	2.52
AISM1008–470J	47	±5	20	13	11.10	80	2.25
AISM1008–560J	56	±5	20	12	12.10	75	2.52
AISM1008–680J	68	±5	20	11	16.60	70	2.52
AISM1008–820J	82	±5	20	10	19.00	65	2.52
AISM1008–101J	100	±5	15	9	21.00	60	0.796

PHYSICAL CHARACTERISTICS



Winding

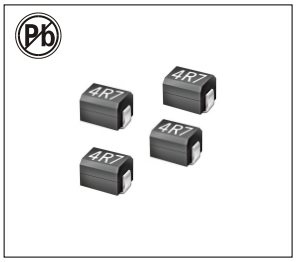
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  Q: HP4342A
  SRF:HP4291A
- Operating temperature: –25℃ to +85℃
- Storage Temperature: –40℃ to +85℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

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

SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1210 SERIES



FEATURES:

- Lead–free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead–free compatible reflow soldering conditions.

APPLICATIONS:

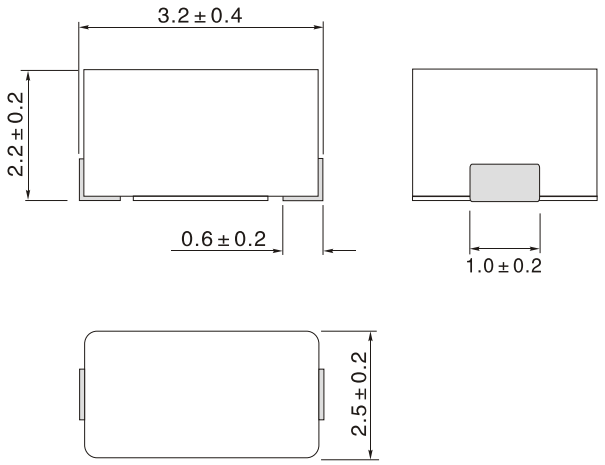
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1210–R10 □	0.1	± 20, ± 10%	28	100	700	0.44	450
AISM1210–R12 □	0.12	± 20, ± 10%	30	25.2	500	0.22	450
AISM1210–R15 □	0.15	± 20, ± 10%	30	25.2	450	0.25	450
AISM1210–R18 □	0.18	± 20, ± 10%	30	25.2	400	0.28	450
AISM1210–R22 □	0.22	± 20, ± 10%	30	25.2	350	0.32	450
AISM1210–R27 □	0.27	± 20, ± 10%	30	25.2	320	0.36	450
AISM1210–R33 □	0.33	± 20, ± 10%	30	25.2	300	0.4	450
AISM1210–R39 □	0.39	± 20, ± 10%	30	25.2	250	0.45	450
AISM1210–R47 □	0.47	± 20, ± 10%	30	25.2	220	0.5	450
AISM1210–R56 □	0.56	± 20, ± 10%	30	25.2	180	0.55	450
AISM1210–R68 □	0.68	± 20, ± 10%	30	25.2	160	0.6	450
AISM1210–R82 □	0.82	± 20, ± 10%	30	25.2	140	0.65	450
AISM1210–1R0 □	1	± 10%, ± 5%	30	7.96	120	0.7	400
AISM1210–1R2 □	1.2	± 10%, ± 5%	30	7.96	100	0.75	390
AISM1210–1R5 □	1.5	± 10%, ± 5%	30	7.96	85	0.85	370
AISM1210–1R8 □	1.8	± 10%, ± 5%	30	7.96	80	0.9	350
AISM1210–2R2 □	2.2	± 10%, ± 5%	30	7.96	75	1	320
AISM1210–2R7 □	2.7	± 10%, ± 5%	30	7.96	70	1.1	290
AISM1210–3R3 □	3.3	± 10%, ± 5%	30	7.96	60	1.2	260
AISM1210–3R9 □	3.9	± 10%, ± 5%	30	7.96	55	1.3	250
AISM1210–4R7 □	4.7	± 10%, ± 5%	30	7.96	50	1.5	220
AISM1210–5R6 □	5.6	± 10%, ± 5%	30	7.96	45	1.6	200
AISM1210–6R8 □	6.8	± 10%, ± 5%	30	7.96	40	1.8	180
AISM1210–8R2 □	8.2	± 10%, ± 5%	30	7.96	35	2	170
AISM1210–100 □	10	± 10%, ± 5%	30	2.52	30	2.1	150
AISM1210–120 □	12	± 10%, ± 5%	30	2.52	20	2.5	140
AISM1210–150 □	15	± 10%, ± 5%	30	2.52	20	2.8	130
AISM1210–180 □	18	± 10%, ± 5%	30	2.52	20	3.3	120
AISM1210–220 □	22	± 10%, ± 5%	30	2.52	20	3.7	110
AISM1210–270 □	27	± 10%, ± 5%	30	2.52	20	5	80
AISM1210–330 □	33	± 10%, ± 5%	30	2.52	17	5.6	70
AISM1210–390 □	39	± 10%, ± 5%	30	2.52	16	6.4	65
AISM1210–470 □	47	± 10%, ± 5%	30	2.52	15	7	60
AISM1210–560 □	56	± 10%, ± 5%	30	2.52	13	8	55
AISM1210–680 □	68	± 10%, ± 5%	30	2.52	12	9	50
AISM1210–820 □	82	± 10%, ± 5%	30	2.52	11	10	45
AISM1210–101 □	100	± 10%, ± 5%	20	0.796	10	10	40
AISM1210–121 □	120	± 10%, ± 5%	20	0.796	10	11	70
AISM1210–151 □	150	± 10%, ± 5%	20	0.796	8	15	65
AISM1210–181 □	180	± 10%, ± 5%	20	0.796	7	17	60
AISM1210–221 □	220	± 10%, ± 5%	20	0.796	7	21	50

□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

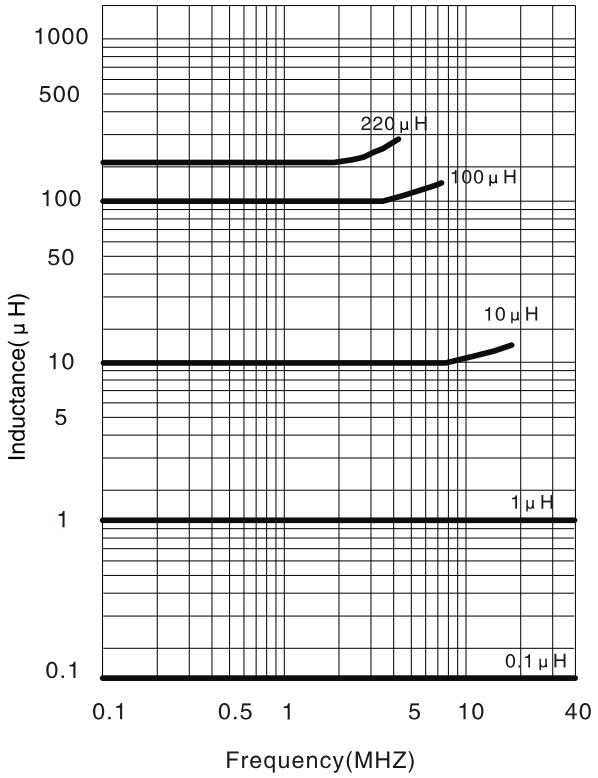
PHYSICAL CHARACTERISTICS



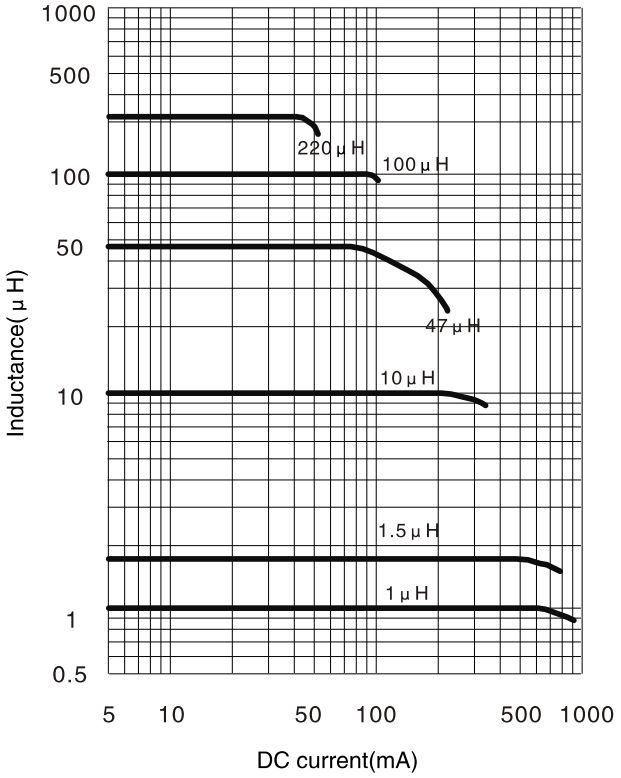
Winding

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  Q: HP4342A
  SRF:HP4291A
- Operating temperature: –25℃ to +85℃
- Storage Temperature: –40℃ to +85℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Inductance & Tolerance

INDUCTANCE VS FREQUENCY CURVE

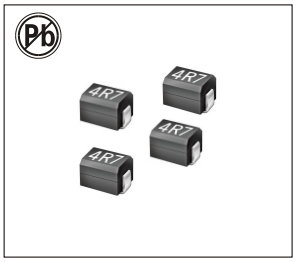


IMPEDANCE VS FREQUENCY CURVE



SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1812 SERIES



FEATURES:

- Lead–free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead–free compatible reflow soldering conditions.

APPLICATIONS:

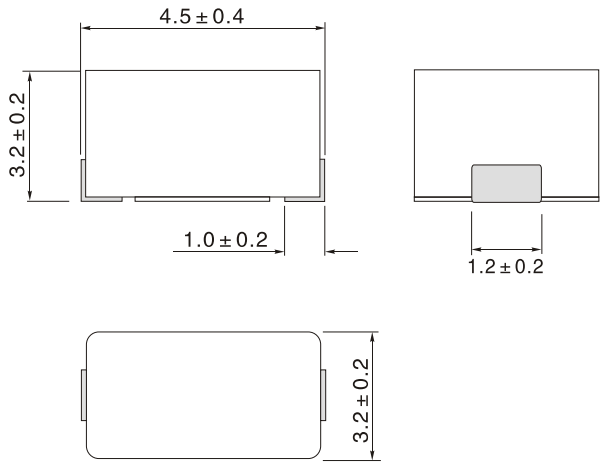
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1812–R10 □	0.1	± 10%, ± 20%	35	25.2	300	0.18	800
AISM1812–R12 □	0.12	± 10%, ± 20%	35	25.2	280	0.20	770
AISM1812–R15 □	0.15	± 10%, ± 20%	35	25.2	250	0.22	730
AISM1812–R18 □	0.18	± 10%, ± 20%	35	25.2	220	0.24	700
AISM1812–R22 □	0.22	± 10%, ± 20%	40	25.2	200	0.25	665
AISM1812–R27 □	0.27	± 10%, ± 20%	40	25.2	180	0.26	635
AISM1812–R33 □	0.33	± 10%, ± 20%	40	25.2	165	0.28	605
AISM1812–R39 □	0.39	± 10%, ± 20%	40	25.2	150	0.30	575
AISM1812–R47 □	0.47	± 10%, ± 20%	40	25.2	145	0.32	545
AISM1812–R56 □	0.56	± 10%, ± 20%	40	25.2	140	0.36	520
AISM1812–R68 □	0.68	± 10%, ± 20%	40	25.2	135	0.40	500
AISM1812–R82 □	0.82	± 10%, ± 20%	40	25.2	130	0.45	475
AISM1812–1R0 □	1.0	± 10%, ± 20%	50	7.96	100	0.5	450
AISM1812–1R2 □	1.2	± 10%, ± 20%	50	7.96	80	0.55	430
AISM1812–1R5 □	1.5	± 10%, ± 20%	50	7.96	70	0.6	410
AISM1812–1R8 □	1.8	± 10%, ± 20%	50	7.96	60	0.65	390
AISM1812–2R2 □	2.2	± 10%, ± 20%	50	7.96	55	0.7	380
AISM1812–2R7 □	2.7	± 10%, ± 20%	50	7.96	50	0.75	370
AISM1812–3R3 □	3.3	± 10%, ± 20%	50	7.96	45	0.8	355
AISM1812–3R9 □	3.9	± 10%, ± 20%	50	7.96	40	0.9	330
AISM1812–4R7 □	4.7	± 10%, ± 20%	50	7.96	35	1	315
AISM1812–5R6 □	5.6	± 10%, ± 20%	50	7.96	33	1.1	300
AISM1812–6R8 □	6.8	± 10%, ± 20%	50	7.96	27	1.2	285
AISM1812–8R2 □	8.2	± 5%, ± 10%	50	7.96	25	1.4	270
AISM1812–100 □	10	± 5%, ± 10%	50	2.52	20	1.6	250
AISM1812–120 □	12	± 5%, ± 10%	50	2.52	18	2	225
AISM1812–150 □	15	± 5%, ± 10%	50	2.52	17	2.5	200
AISM1812–180 □	18	± 5%, ± 10%	50	2.52	15	2.8	190
AISM1812–220 □	22	± 5%, ± 10%	50	2.52	13	3.2	180
AISM1812–270 □	27	± 5%, ± 10%	50	2.52	12	3.6	170
AISM1812–330 □	33	± 5%, ± 10%	50	2.52	11	4	160
AISM1812–390 □	39	± 5%, ± 10%	50	2.52	10	4.5	150
AISM1812–470 □	47	± 5%, ± 10%	50	2.52	10	5	140
AISM1812–560 □	56	± 5%, ± 10%	50	2.52	9	5.5	135
AISM1812–680 □	68	± 5%, ± 10%	50	2.52	9	6	130
AISM1812–820 □	82	± 5%, ± 10%	50	2.52	8	7	120
AISM1812–101 □	100	± 5%, ± 10%	40	0.796	8	8	110
AISM1812–121 □	120	± 5%, ± 10%	40	0.796	6	8	110
AISM1812–151 □	150	± 5%, ± 10%	40	0.796	5	9	105
AISM1812–181 □	180	± 5%, ± 10%	40	0.796	5	9.5	102
AISM1812–221 □	220	± 5%, ± 10%	40	0.796	4	10	100
AISM1812–271 □	270	± 5%, ± 10%	40	0.796	4	12	92
AISM1812–331 □	330	± 5%, ± 10%	40	0.796	3.5	14	85
AISM1812–391 □	390	± 5%, ± 10%	40	0.796	3	18	80
AISM1812–471 □	470	± 5%, ± 10%	40	0.796	3	26	62
AISM1812–561 □	560	± 5%, ± 10%	30	0.796	3	30	50
AISM1812–681 □	680	± 5%, ± 10%	30	0.796	3	30	50
AISM1812–821 □	820	± 5%, ± 10%	30	0.796	2.5	35	30
AISM1812–102 □	1000	± 5%, ± 10%	20	0.252	2.5	40	30

□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

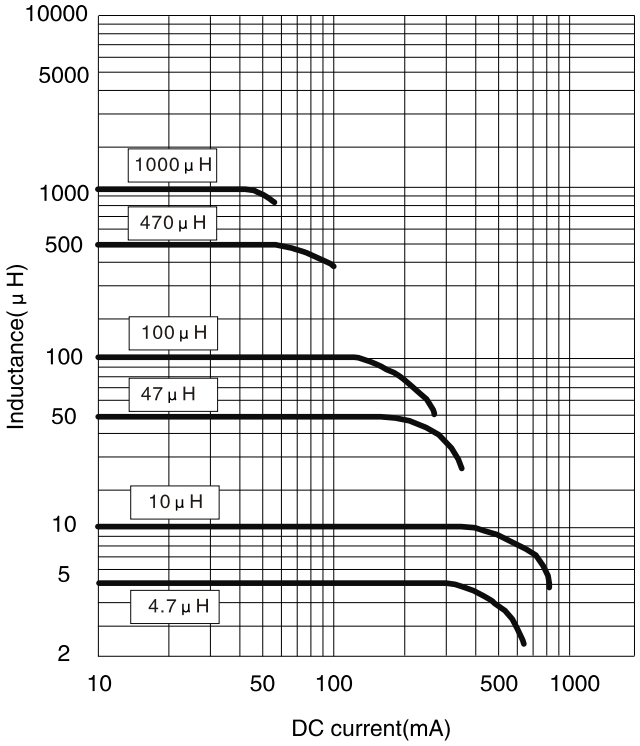
PHYSICAL CHARACTERISTICS



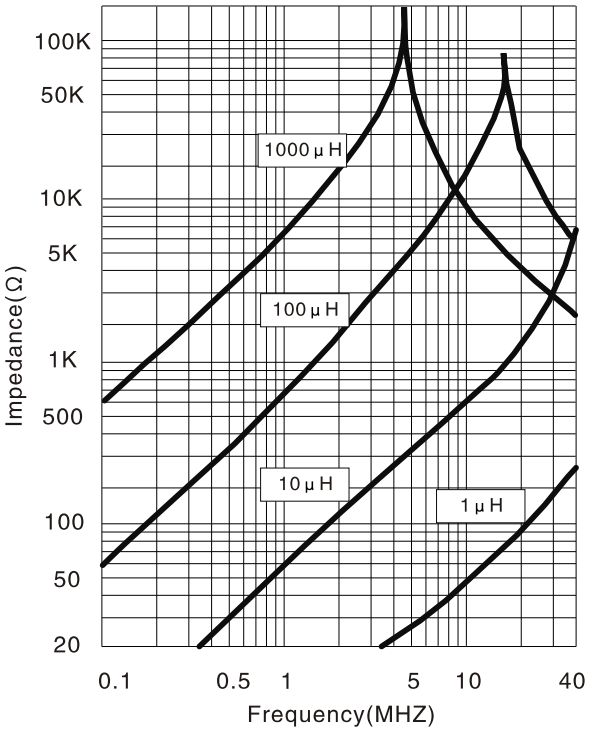
Winding

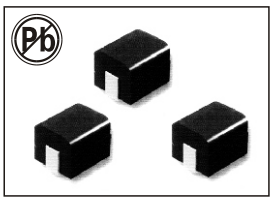
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  Q: HP4342A
  SRF:HP4291A
- Operating temperature: –25℃ to +85℃
- Storage Temperature: –40℃ to +85℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Inductance & Tolerance

DC BISE CURVE



IMPEDANCE VS FREQUENCY CURVE





SURFACE–MOUNT WOUND MOLDED CHIP INDUCTORS
AISM–2220 SERIES

FEATURES:

- Molded construction
- Heat Resistant Molded Resin
- Excellent Mechanical Strength
- Excellent Solderability
- High Reliability
- Low Profile

OPTIONS:

- Packaging:Tape & Reel is standard (Qty:500pcs)
  Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard, tighter tolerances available

COMMON APPLICATIONS:

- VCRs
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz	Part Number	L μH	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM–2220–1R0K	1.00	10	95	0.030	1800	7.96	AISM–2220–121K	120	20	5.4	1.9	230	0.796
AISM–2220–1R2K	1.20	10	70	0.035	1700	7.96	AISM–2220–151K	150	20	4.8	2.2	210	0.796
AISM–2220–1R5K	1.50	10	55	0.04	1600	7.96	AISM–2220–181K	180	20	4.4	2.8	190	0.796
AISM–2220–1R8K	1.80	10	47	0.05	1400	7.96	AISM–2220–221K	220	20	3.9	3.4	170	0.796
AISM–2220–2R2K	2.20	10	42	0.06	1300	7.96	AISM–2220–271K	270	20	3.6	4.2	155	0.796
AISM–2220–2R7K	2.70	10	37	0.07	1200	7.96	AISM–2220–331K	330	20	3.2	4.9	140	0.796
AISM–2220–3R3K	3.30	10	34	0.08	1120	7.96	AISM–2220–391K	390	20	2.9	5.8	130	0.796
AISM–2220–3R9K	3.90	10	32	0.09	1050	7.96	AISM–2220–471K	470	20	2.6	7.0	120	0.796
AISM–2220–4R7K	4.70	10	29	0.11	950	7.96	AISM–2220–561K	560	20	2.4	8.5	110	0.796
AISM–2220–5R6K	5.60	10	26	0.13	880	7.96	AISM–2220–681K	680	20	2.2	10	100	0.796
AISM–2220–6R8K	6.80	10	24	0.15	810	7.96	AISM–2220–821K	820	20	2.0	13	90	0.796
AISM–2220–8R2K	8.20	10	22	0.18	750	7.96	AISM–2220–102K	1000	20	1.8	15	85	0.252
AISM–2220–100K	10.00	10	19	0.21	690	2.52	AISM–2220–122J	1200	30	1.5	17	75	0.252
AISM–2220–120K	12.00	10	17	0.25	630	2.52	AISM–2220–152J	1500	30	1.4	20	70	0.252
AISM–2220–150K	15.00	10	16	0.30	580	2.52	AISM–2220–182J	1800	30	1.3	30	60	0.252
AISM–2220–180K	18.00	10	14	0.36	530	2.52	AISM–2220–222J	2200	30	1.2	35	55	0.252
AISM–2220–220K	22.00	10	13	0.43	480	2.52	AISM–2220–272J	2700	30	1.1	55	45	0.252
AISM–2220–270K	27.00	10	11.5	0.52	440	2.52	AISM–2220–332J	3300	30	1.0	60	40	0.252
AISM–2220–330K	33.00	10	10.5	0.62	400	2.52	AISM–2220–392J	3900	30	1.0	70	38	0.252
AISM–2220–390K	39.00	10	9.5	0.72	370	2.52	AISM–2220–472J	4700	30	0.9	78	36	0.252
AISM–2220–470K	47.00	10	8.5	0.85	340	2.52	AISM–2220–562J	5600	30	0.8	85	33	0.252
AISM–2220–560K	56.00	10	7.8	1.0	310	2.52	AISM–2220–682J	6800	30	0.7	110	30	0.252
AISM–2220–680K	68.00	10	7.0	1.2	290	2.52	AISM–2220–822J	8200	30	0.6	125	28	0.252
AISM–2220–820K	82.00	10	6.4	1.4	270	2.52	AISM–2220–103J	10000	20	0.5	150	25	0.0796
AISM–2220–101K	100	20	6.0	1.6	250	0.796							

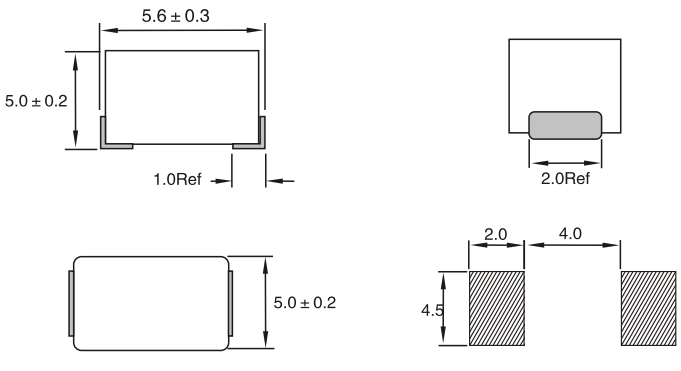
Note:1. J ± 5,%=K= ± 10%,M= ± 20%,

TECHNICAL INFORMATION:

- 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 +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.

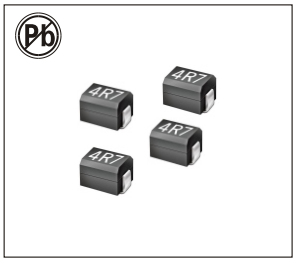
PHYSICAL CHARACTERISTICS:



Dimensions: (mm)

HIGH CURRENT SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1210C SERIES



FEATURES:

- Lead–free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead–free compatible reflow soldering conditions.

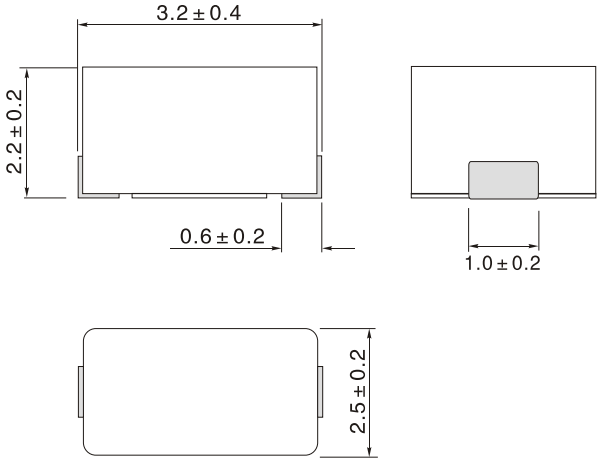
APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1210C–1R0M	1	± 20%	10	7.96	100	0.156	770
AISM1210C–1R5M	1.5	± 20%	10	7.96	80	0.195	580
AISM1210C–2R2M	2.2	± 20%	10	7.96	65	0.260	480
AISM1210C–3R3M	3.3	± 20%	10	7.96	55	0.325	400
AISM1210C–4R7M	4.7	± 20%	10	7.96	45	0.520	320
AISM1210C–6R8M	6.8	± 20%	10	7.96	35	0.650	280
AISM1210C–100K	10	± 10%	15	2.52	28	1.105	220
AISM1210C–150K	15	± 10%	15	2.52	25	1.69	180
AISM1210C–220K	22	± 10%	15	2.52	20	2.60	145
AISM1210C–330K	33	± 10%	15	2.52	15	3.64	115
AISM1210C–390K	39	± 10%	15	2.52	14	4.50	110
AISM1210C–470K	47	± 10%	15	2.52	13	5.46	105
AISM1210C–680K	68	± 10%	15	2.52	10	8.45	85
AISM1210C–820K	82	± 10%	15	2.52	9	8.71	80
AISM1210C–101K	100	± 10%	15	0.796	8	9.14	75

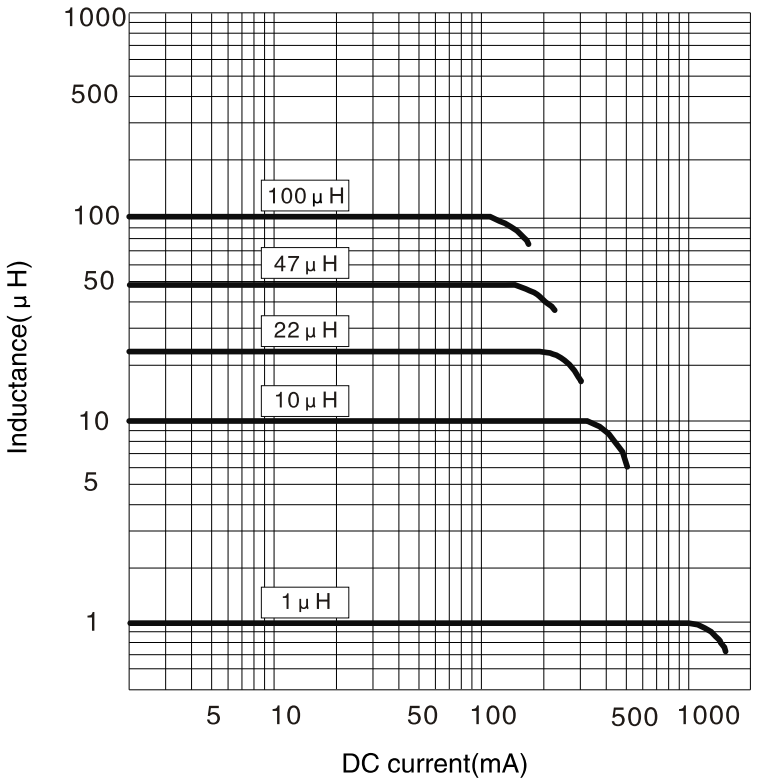
PHYSICAL CHARACTERISTICS



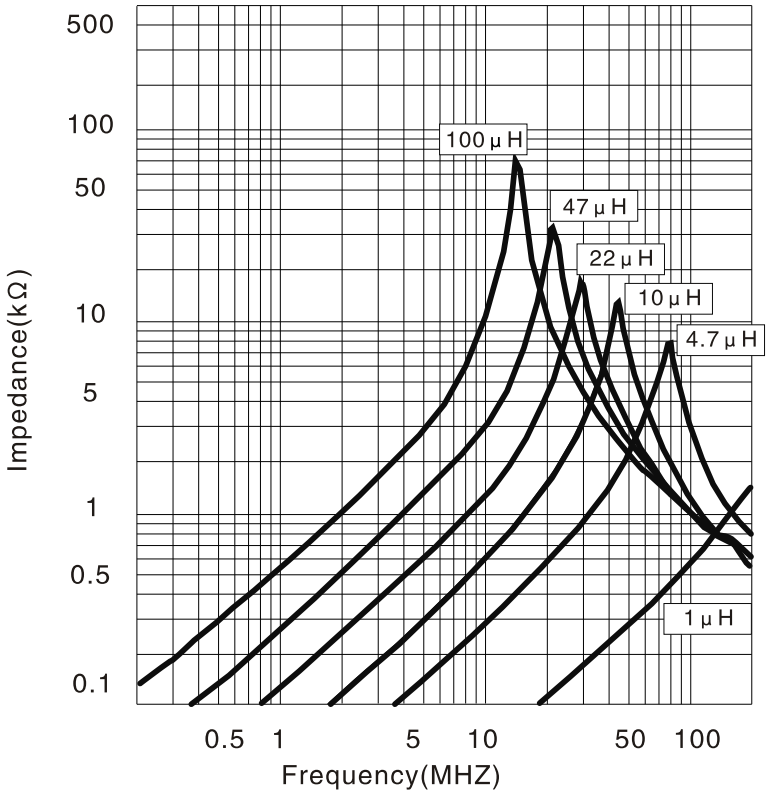
Winding

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  Q: HP4342A
  SRF:HP4291A
- Operating temperature: –25℃ to +85℃
- Storage Temperature: –40℃ to +85℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Inductance & Tolerance

DC BISE CURVE

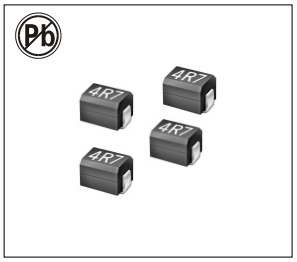


IMPEDANCE VS FREQUENCY CURVE



HIGH CURRENT SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1812C SERIES



FEATURES:

- Lead–free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead–free compatible reflow soldering conditions.

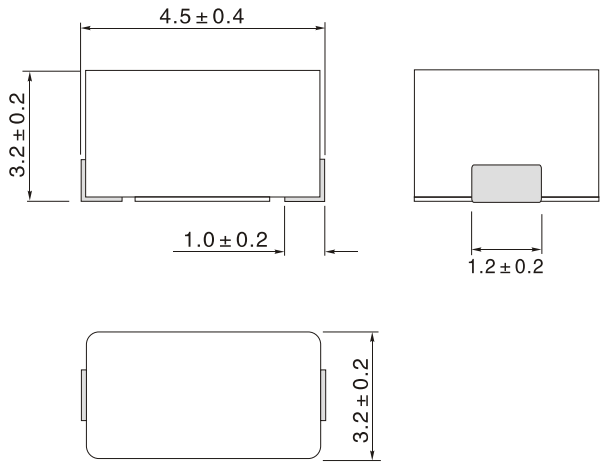
APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1812C–1R0K	1.0	± 10%	10	7.96	180	0.11	1050
AISM1812C–1R2K	1.2	± 10%	10	7.96	160	0.12	1000
AISM1812C–1R5K	1.5	± 10%	10	7.96	130	0.15	950
AISM1812C–1R8K	1.8	± 10%	10	7.96	100	0.16	900
AISM1812C–2R2K	2.2	± 10%	10	7.96	80	0.18	850
AISM1812C–2R7K	2.7	± 10%	10	7.96	60	0.20	800
AISM1812C–3R3K	3.3	± 10%	10	7.96	45	0.22	750
AISM1812C–3R9K	3.9	± 10%	10	7.96	40	0.24	700
AISM1812C–4R7K	4.7	± 10%	10	7.96	35	0.27	650
AISM1812C–5R6K	5.6	± 10%	10	7.96	30	0.30	650
AISM1812C–6R8K	6.8	± 10%	10	7.96	28	0.35	600
AISM1812C–8R2K	8.2	± 10%	10	7.96	25	0.40	600
AISM1812C–100K	10	± 10%	10	2.52	22	0.50	550
AISM1812C–120K	12	± 10%	10	2.52	21	0.60	500
AISM1812C–150K	15	± 10%	10	2.52	20	0.70	450
AISM1812C–180K	18	± 10%	10	2.52	19	0.80	400
AISM1812C–220K	22	± 10%	10	2.52	18	0.9	370
AISM1812C–270K	27	± 10%	10	2.52	16	1.2	330
AISM1812C–330K	33	± 10%	10	2.52	14	1.4	300
AISM1812C–390K	39	± 10%	10	2.52	12	1.6	280
AISM1812C–470K	47	± 10%	10	2.52	11.5	1.9	260
AISM1812C–560K	56	± 10%	10	2.52	11	2.2	240
AISM1812C–680K	68	± 10%	10	2.52	10	2.6	220
AISM1812C–820K	82	± 10%	10	2.52	9	3.5	200
AISM1812C–101K	100	± 10%	20	0.796	8	4.0	180
AISM1812C–121K	120	± 10%	20	0.796	7.5	4.5	160
AISM1812C–151K	150	± 10%	20	0.796	7	6.5	140
AISM1812C–181K	180	± 10%	20	0.796	6.5	7.5	120
AISM1812C–221K	220	± 10%	20	0.796	5.5	9.0	120
AISM1812C–271K	270	± 10%	20	0.796	5	11	100
AISM1812C–331K	330	± 10%	20	0.796	4	13	90

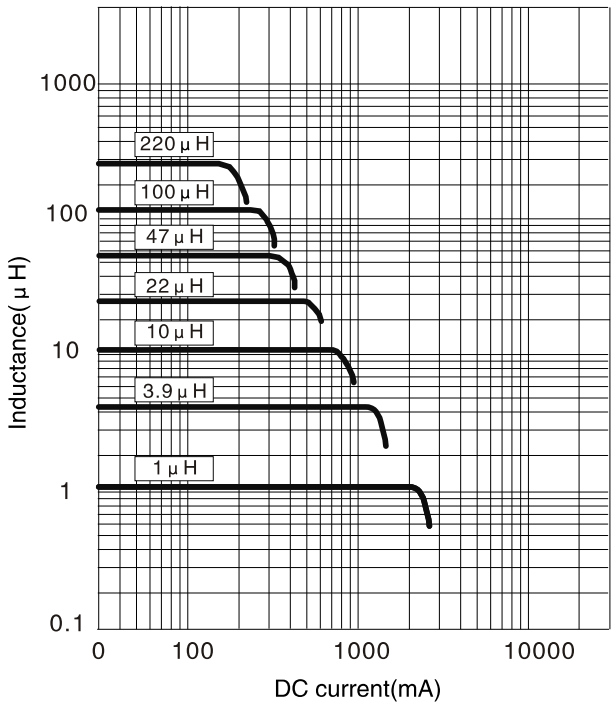
PHYSICAL CHARACTERISTICS



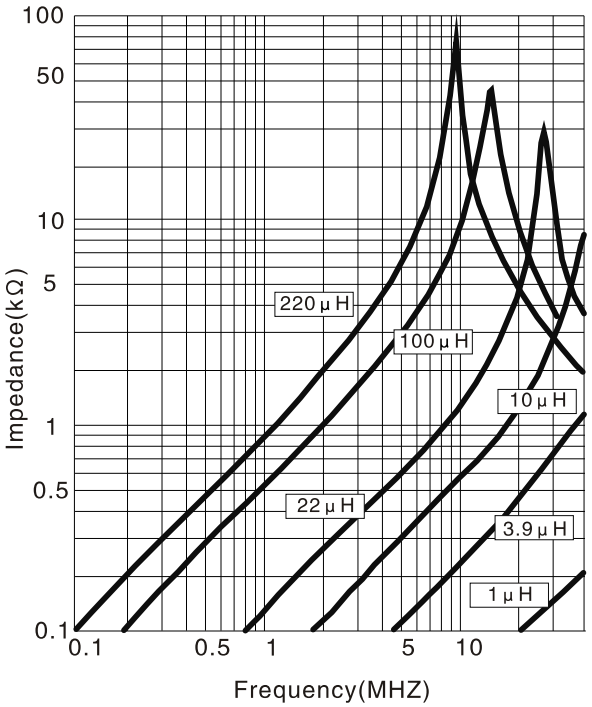
Winding

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  Q: HP4342A
  SRF:HP4291A
- Operating temperature: –25℃ to +85℃
- Storage Temperature: –40℃ to +85℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Inductance & Tolerance

DC BISE CURVE

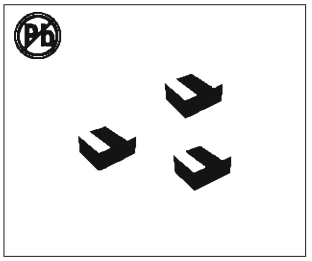


IMPEDANCE VS FREQUENCY CURVE



SMD MOLDED POWER INDUCTORS

LPM0110 SERIES



FEATURES:

- High performance (Isat) realized by metal dust core.
- Low profile：1.20mm x 1.00mm x 0.80mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLCATIONS:

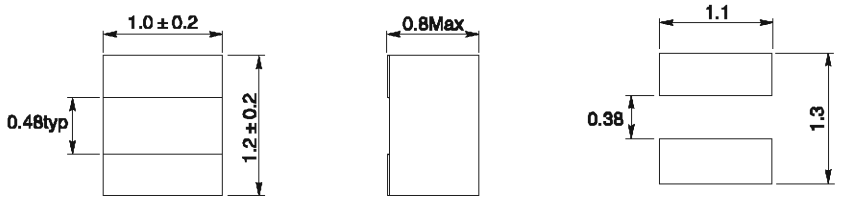
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on–board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance tolerance	Inductance L0(μH) @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM0110–R22M	20%	0.22	1.7	2.16	60
LPM0110–R33M	20%	0.33	1.53	1.90	80
LPM0110–R47M	20%	0.47	1.40	1.40	96
LPM0110–1R0M	20%	1.0	0.95	1.04	201
LPM0110–1R5M	20%	1.5	0.81	0.74	276
LPM0110–2R2M	20%	2.2	0.75	0.61	338
LPM0110–3R3M	20%	3.3	0.52	0.47	516
LPM0110–4R7M	20%	4.7	0.43	0.41	748
LPM0110–100M	20%	10	0.32	0.32	1500

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



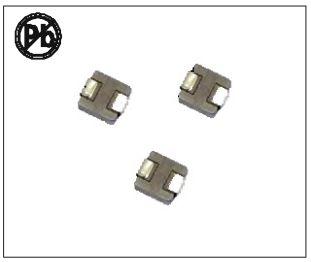
Winding

Notes

- Test Frequency : 1.0MHz / 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

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:

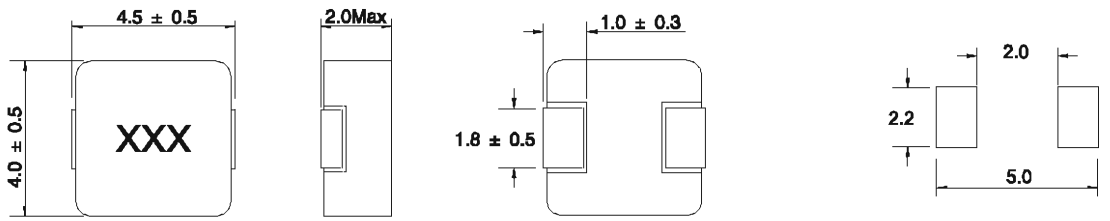
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	96.0
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)



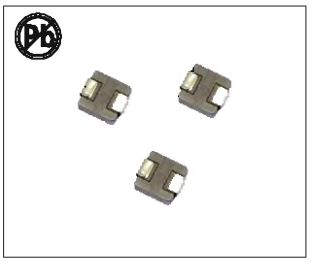
Winding

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:

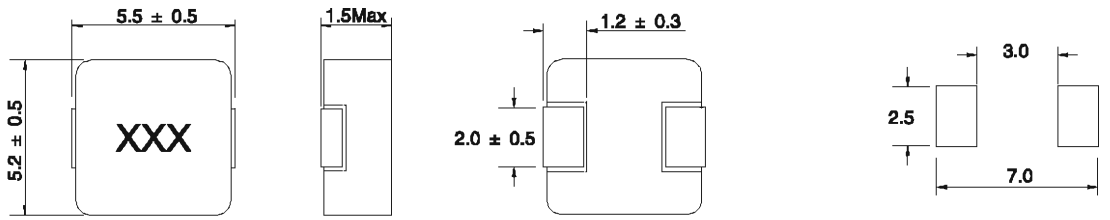
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	16.0	26.0	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	11.6	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	126.0	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)



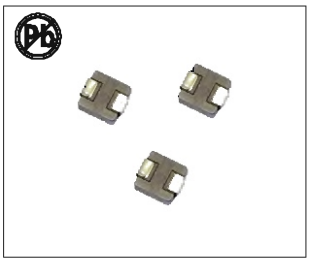
Winding

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℃
- 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

LPM0518C SERIES



FEATURES:

- High performance (Isat) 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:

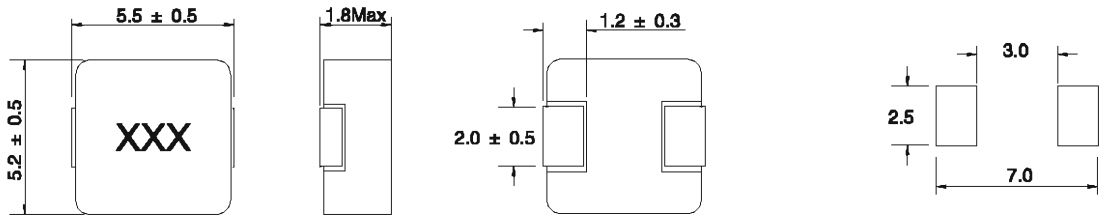
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	16.0	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)



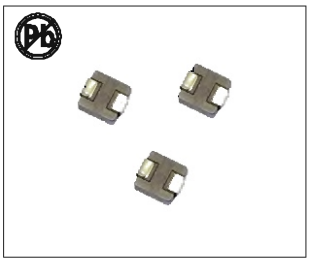
Winding

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:

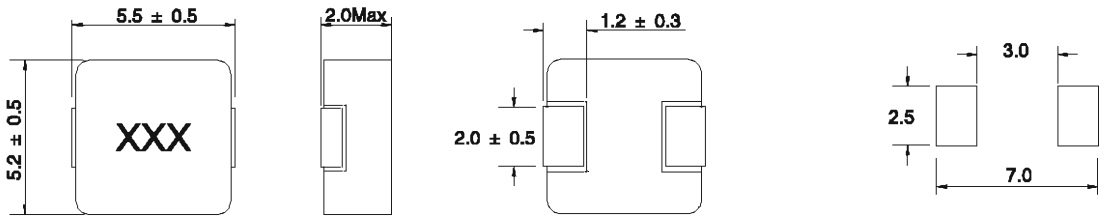
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	33.0	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%
- 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.
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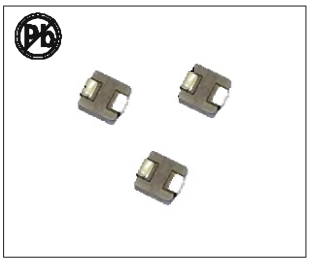
SMD MOLDED POWER INDUCTORS

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:

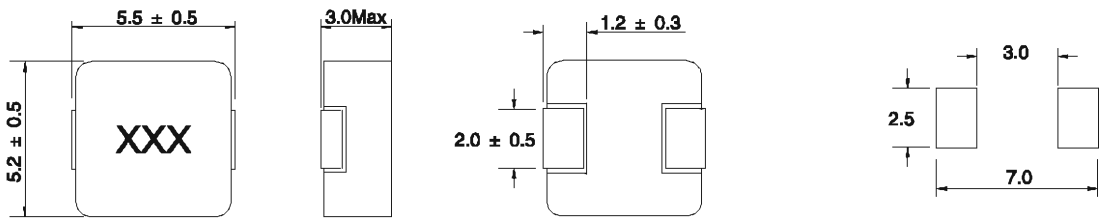
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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℃
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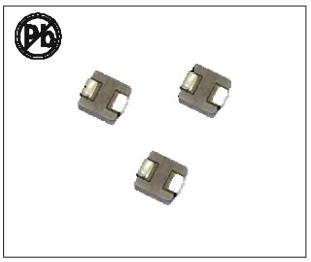
SMD MOLDED POWER INDUCTORS

LPM0620C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 2.0mm
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COMMON APPLICATIONS:

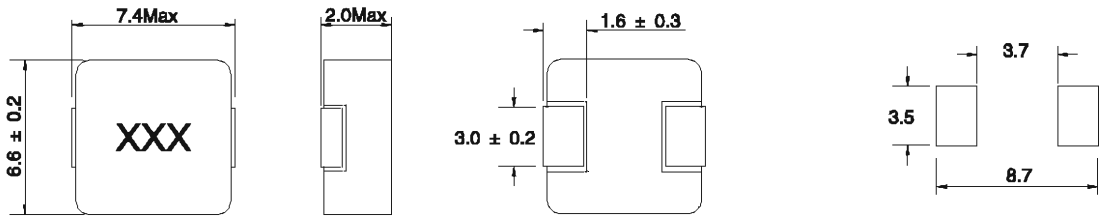
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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
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- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
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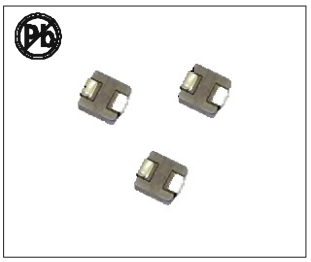
SMD MOLDED POWER INDUCTORS

LPM0624C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 2.4mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

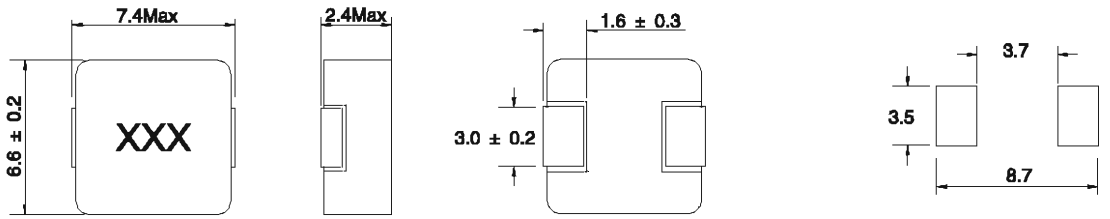
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	8.0	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℃
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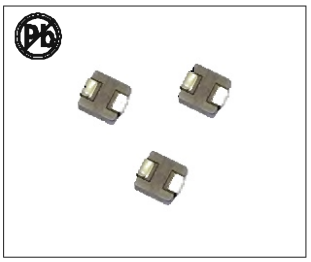
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0630C SERIES



FEATURES:

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- Low profile: 7.4mm x 6.6mm x 3.0mm
- Low loss realized with low DCR
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- RoHS compliant

COMMON APPLICATIONS:

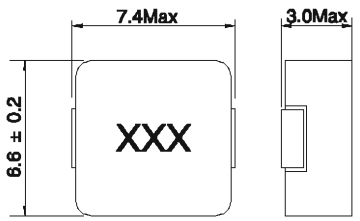
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

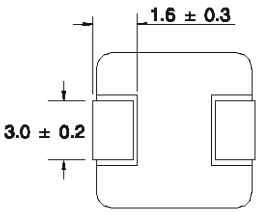
ELECTRICAL CHARACTERISTICS:

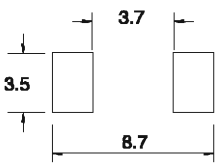
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0630C-R10M	0.10	30.0	75.0	1.20	1.50
LPM0630C-R12M	0.12	29.0	60.0	1.70	2.10
LPM0630C-R15M	0.15	28.0	53.0	1.70	2.10
LPM0630C-R22M	0.22	25.0	45.0	2.20	2.70
LPM0630C-R33M	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)







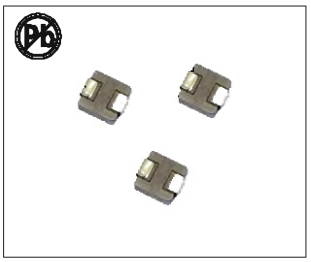
Winding

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 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

LPM0640C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

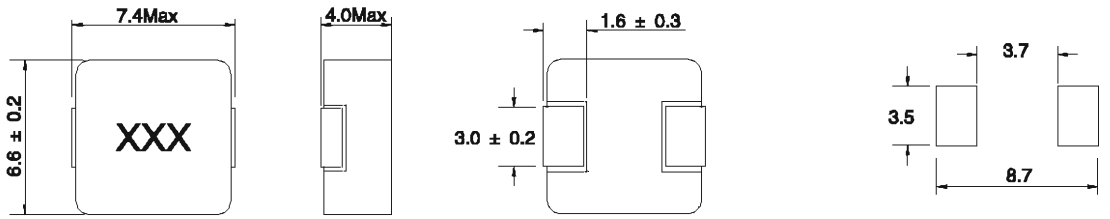
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	0.99	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
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- Operating Temperature Range -55℃ to +125℃
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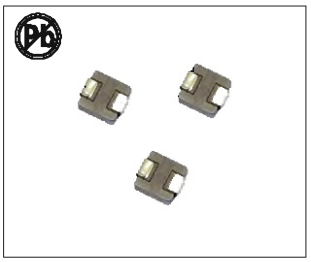
SMD MOLDED POWER INDUCTORS

LPM0650C SERIES



FEATURES:

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- Low profile: 7.4mm x 6.6mm x 5.0mm
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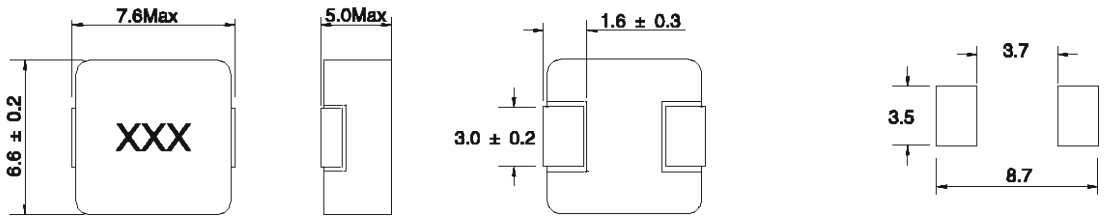
- VRM for server

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)



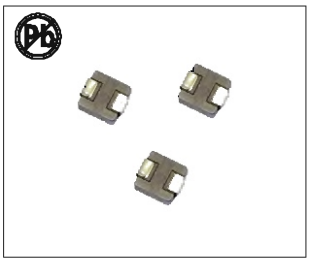
Winding

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:

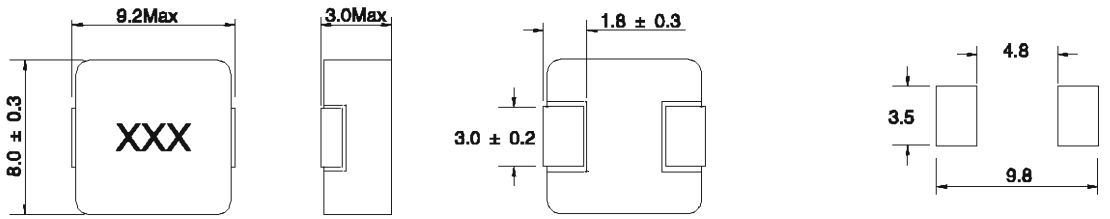
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	65.0
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℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
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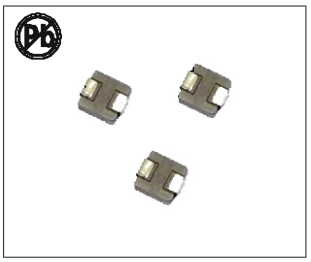
SMD MOLDED POWER INDUCTORS

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:

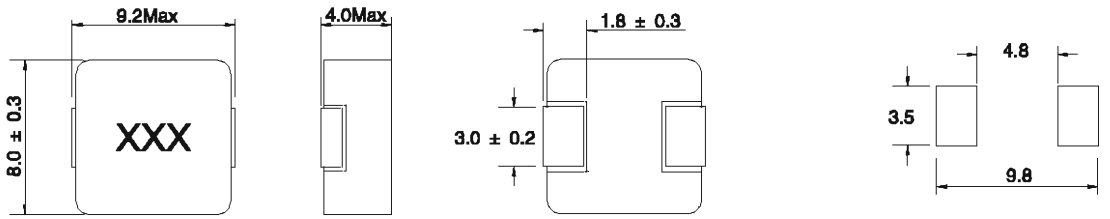
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	6.0	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	191.0	205.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
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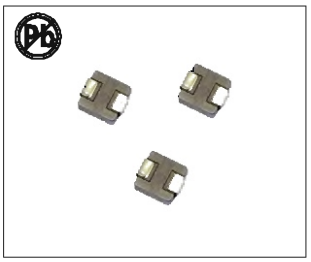
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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:

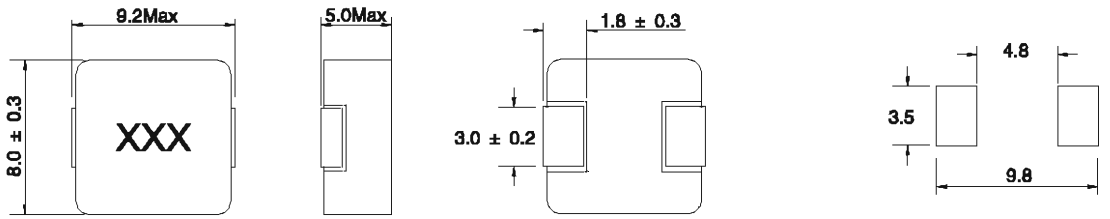
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	28.0	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	8.0	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
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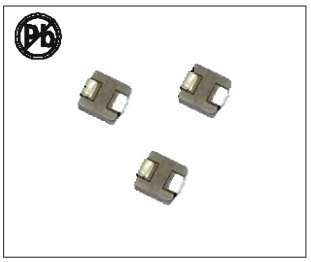
SMD MOLDED POWER INDUCTORS

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:

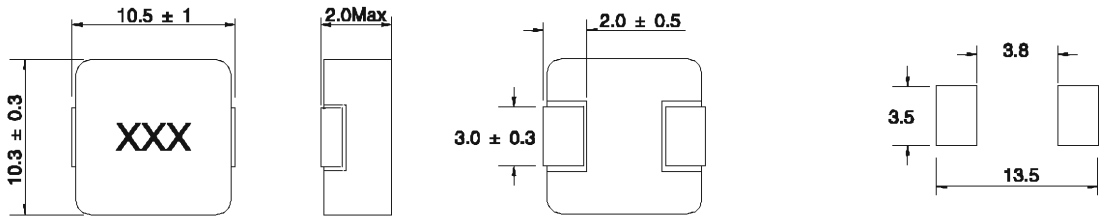
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	3.00	3.80
LPM1020C-1R0M	1.0	19.0	23.0	5.50	6.80
LPM1020C-2R2M	2.2	8.0	14.0	13.3	16.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

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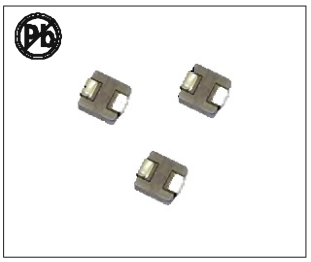
SMD MOLDED POWER INDUCTORS

LPM1030C SERIES



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COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
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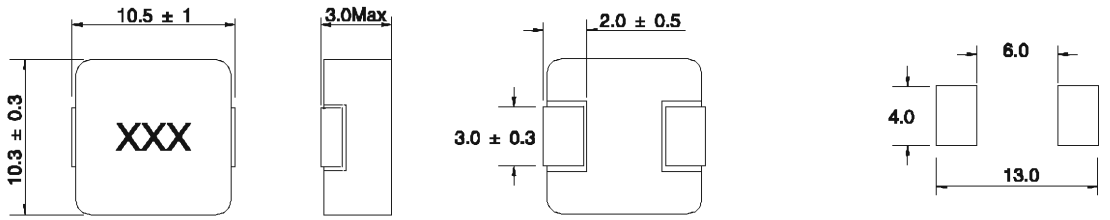
- VRM for server

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	9.0	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%
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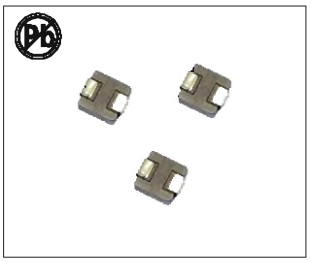
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1040C 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:

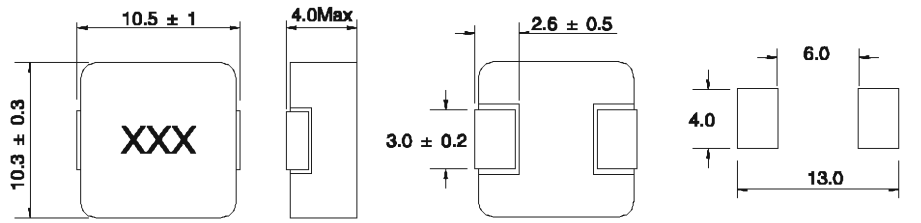
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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).
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	16.0	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)



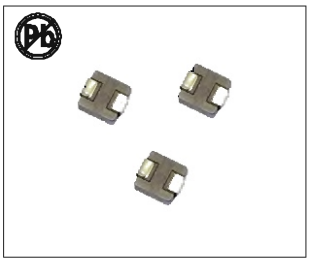
Winding

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 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

LPM1050C 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:

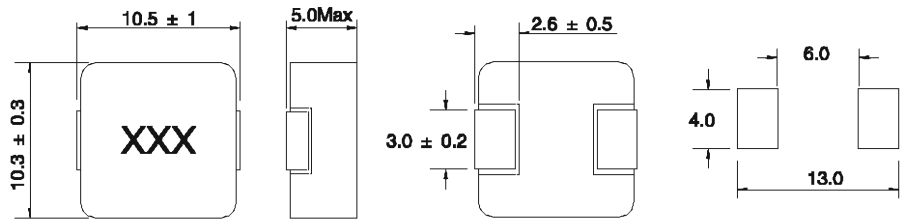
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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).
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%
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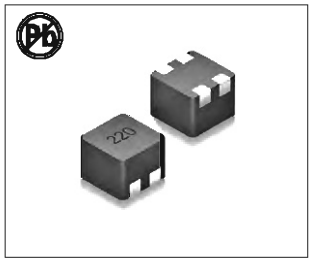
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

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:

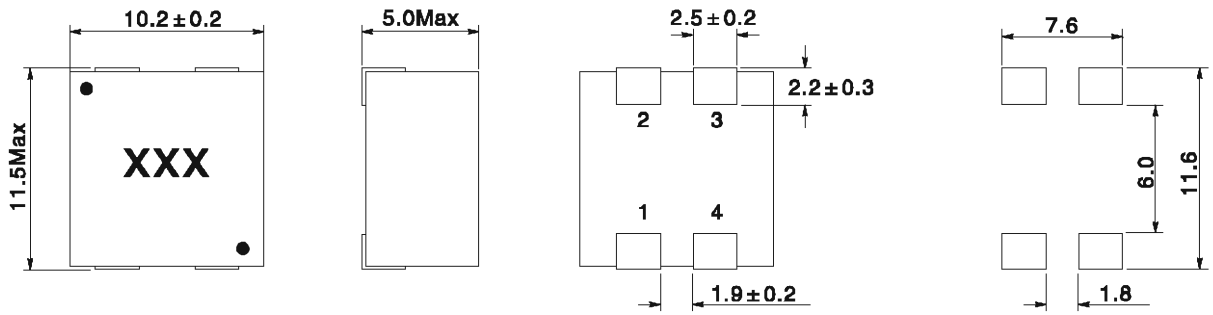
- Isolated converters, such as flyback converters
- Step–down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

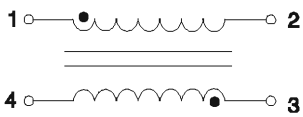
Part Number	Inductance L0(μH) ±20% @0Adc (1–2)=(3–4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1–2)=(3–4)	DCR Max. (mΩ). (1–2)=(3–4)
LPM1050D–3R3M	3.3	7.0	32.0	18.3	22.0
LPM1050D–4R7M	4.7	6.0	30.0	27.0	32.0
LPM1050D–5R6M	5.6	5.0	23.0	38.5	45.0
LPM1050D–150M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

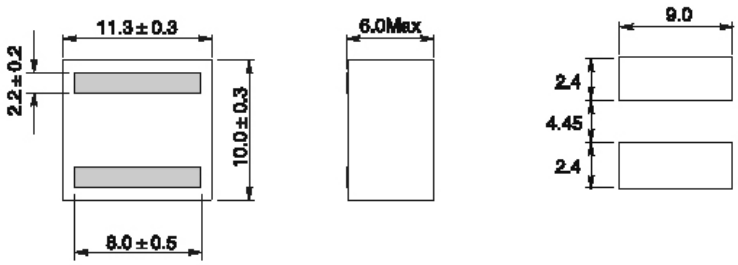
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



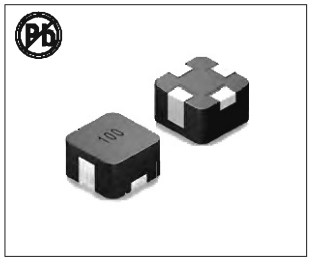
Winding

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:

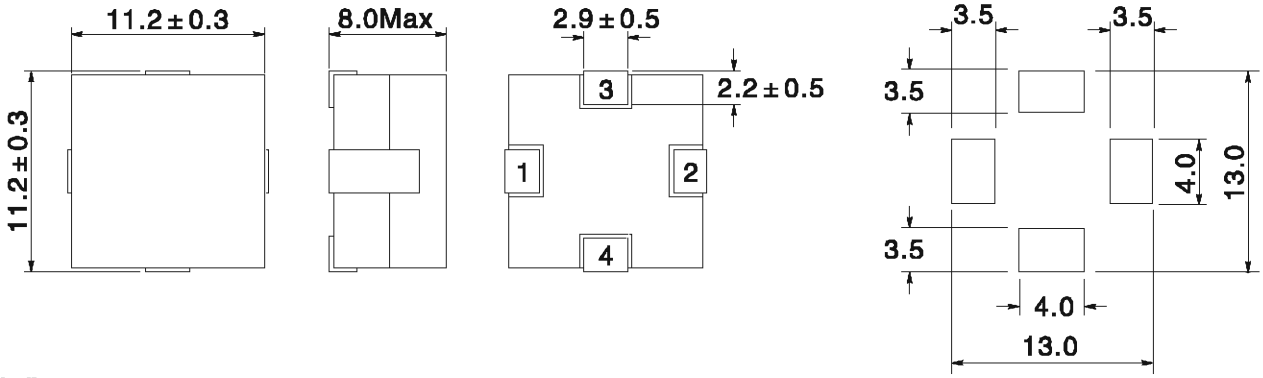
- DC/DC converter for CPU In Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

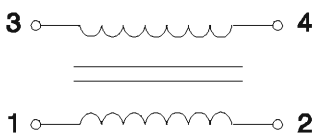
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1080D-8R2M	8.2	14.0	6.0	32.8	35.2
LPM1080D-100M	10.0	13.0	5.5	44.9	49.5
LPM1080D-150M	15.0	12.0	4.5	66.2	71.5
LPM1080D-220M	22.0	9.0	4.0	106.3	115.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

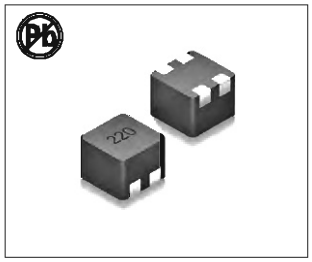


Notes

- 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:

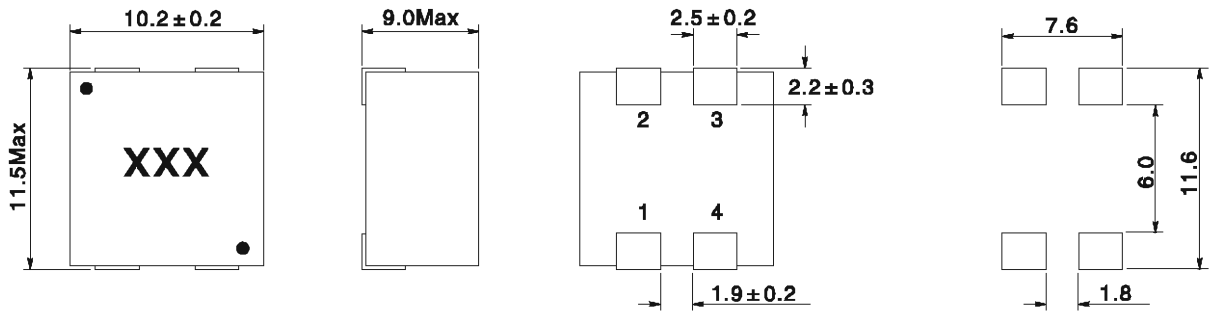
- Isolated converters, such as flyback converters
- Step–down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

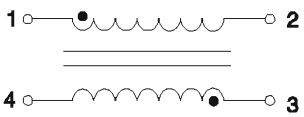
Part Number	Inductance L0(μH) ±20% @0Adc (1–2)=(3–4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1–2)=(3–4)	DCR Max. (mΩ). (1–2)=(3–4)
LPM1090D–1R0M	1.0	17.0	43.5	4.6	5.6
LPM1090D–1R5M	1.5	12.5	34.0	8.7	9.4
LPM1090D–2R2M	2.2	11.5	29.5	10.6	12.5
LPM1090D–3R3M	3.3	7.5	26.2	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

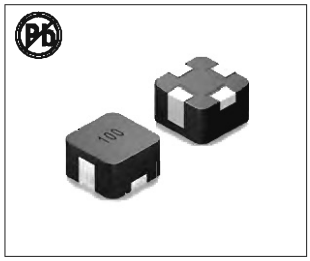


Notes

- 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 (Isat) 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:

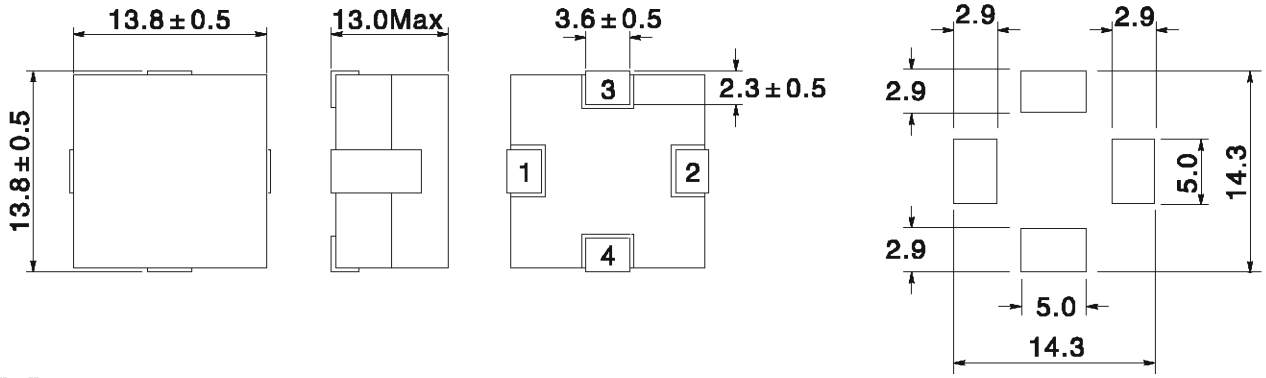
- DC/DC converter for CPU In Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

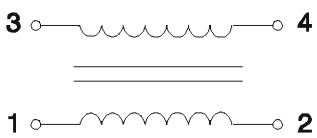
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1213D-8R2M	8.2	25.0	10.0	16.3	17.6
LPM1213D-100M	10.0	21.0	9.0	20.8	22.55
LPM1213D-150M	15.0	16.0	7.0	34.2	36.85
LPM1213D-220M	22.0	15.0	5.5	51.2	55.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

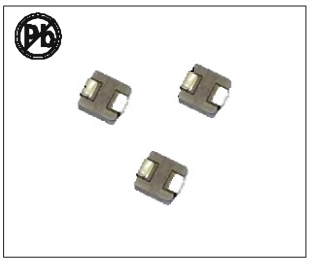


Notes

- 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:

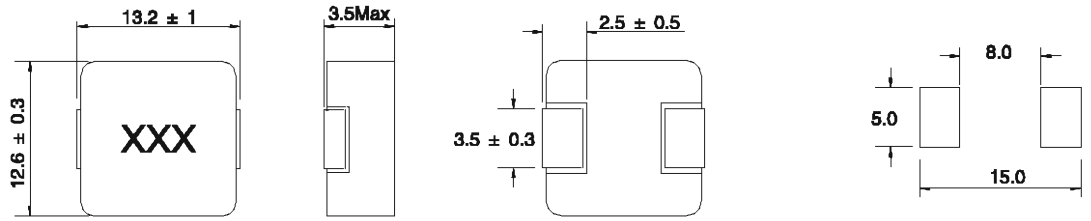
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	0.96
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	26.0	32.0
LPM1235C-100M	10.00	7.0	14.0	29.5	34.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



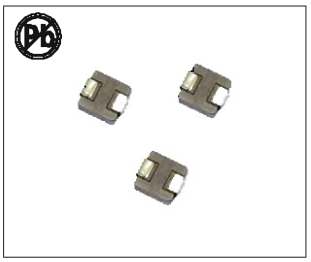
Winding

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

COMMON APPLICATIONS:

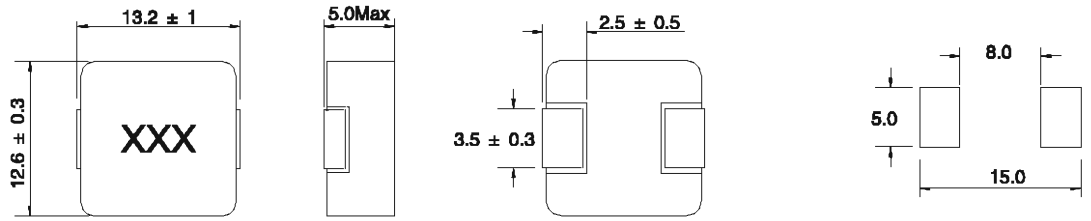
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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).
LPM1250C-R10M	0.10	50.0	90.0	0.26	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%
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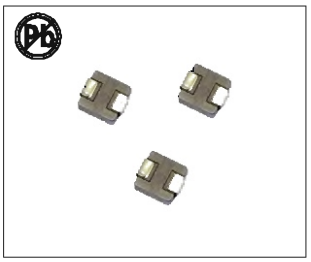
SMD MOLDED POWER INDUCTORS

LPM1260C 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:

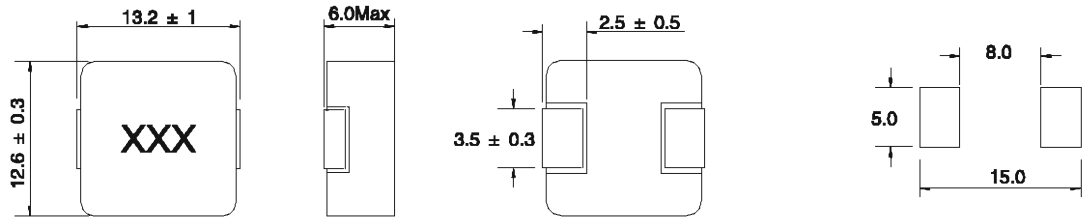
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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).
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	12.8	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 affect the part temperature.Part temperature should be verified in the end application.
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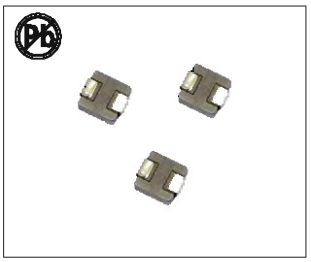
SMD MOLDED POWER INDUCTORS

LPM1265C 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:

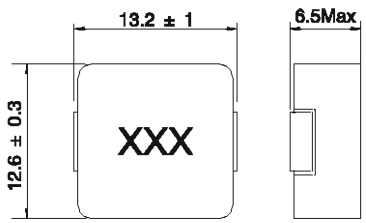
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

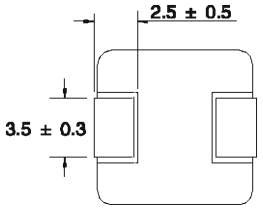
ELECTRICAL CHARACTERISTICS:

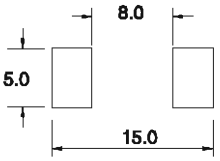
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1265C-R15M	0.15	60.0	120.0	0.37	0.50
LPM1265C-R22M	0.22	50.0	110.0	0.50	0.60
LPM1265C-R33M	0.33	48.0	100.0	0.60	0.80
LPM1265C-R47M	0.47	45.0	90.0	0.80	1.10
LPM1265C-R56M	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)







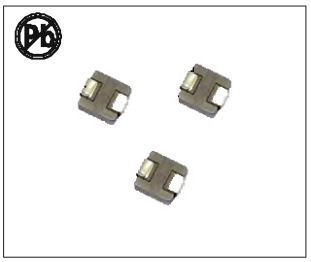
Winding

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 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

LPM1280C 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:

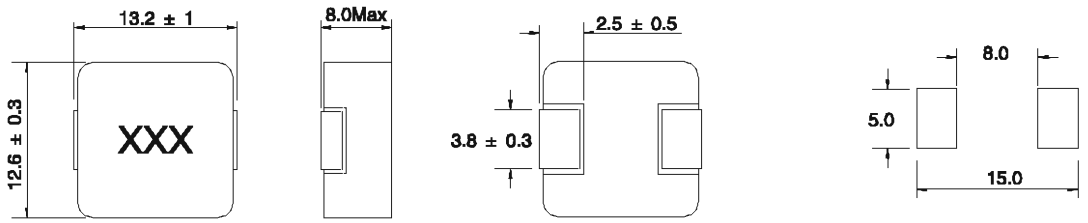
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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).
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:

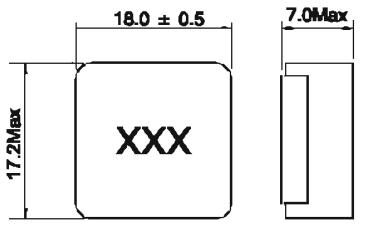
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

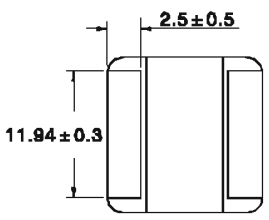
ELECTRICAL CHARACTERISTICS:

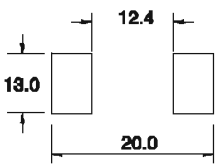
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1770C-1R0M	1.0	50.0	60.0	1.4	1.7
LPM1770C-1R5M	1.5	45.0	70.0	1.7	2.1
LPM1770C-2R2M	2.2	40.0	62.0	2.4	2.7
LPM1770C-3R3M	3.3	35.0	50.0	3.5	4.2
LPM1770C-4R7M	4.7	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	28.0	8.7	11.0
LPM1770C-150M	15.0	14.0	26.0	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)







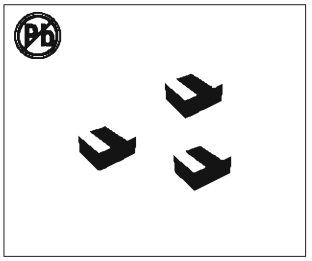
Winding

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 1.6mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

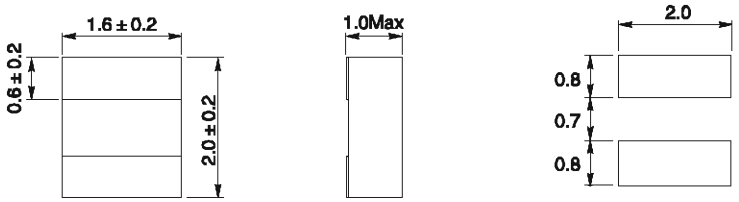
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	180.0	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 (Isat) 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:

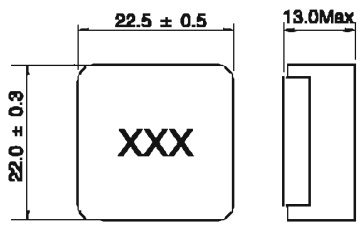
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

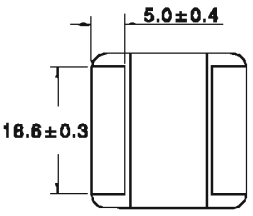
ELECTRICAL CHARACTERISTICS:

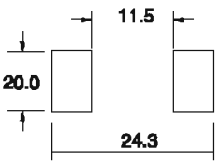
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2213C-R47M	0.47	80.0	100.0	0.56	0.67
LPM2213C-1R0M	1.0	69.0	71.0	0.85	0.89
LPM2213C-1R5M	1.5	65.0	53.0	0.90	1.20
LPM2213C-2R2M	2.2	58.0	48.0	1.10	1.25
LPM2213C-3R3M	3.3	49.0	41.0	1.40	1.80
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	16.0	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)







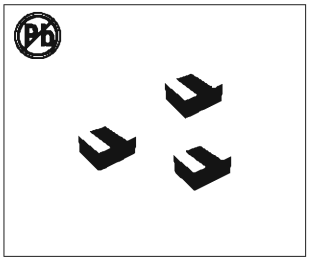
Winding

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 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

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:

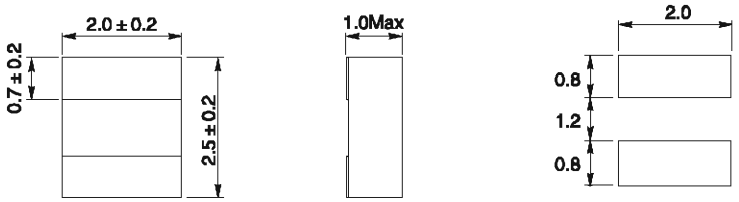
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



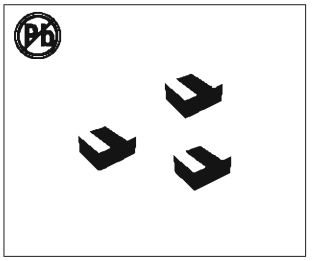
Winding

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℃
- 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

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:

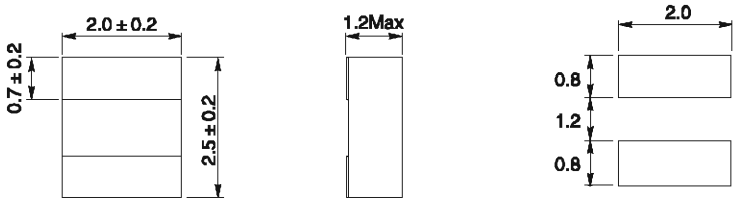
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



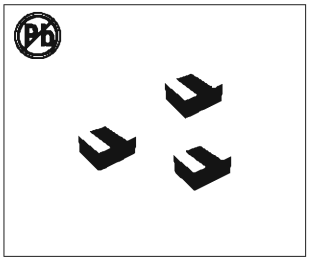
Winding

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:

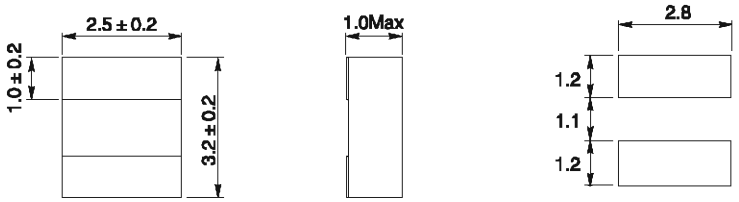
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



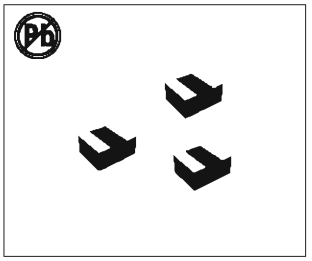
Winding

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:

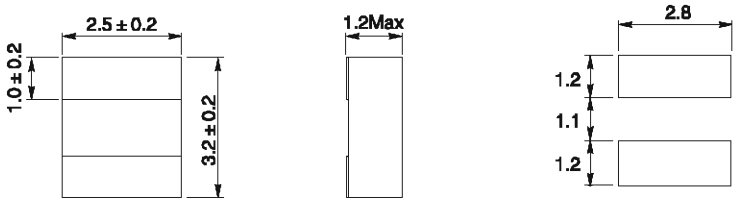
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	192.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



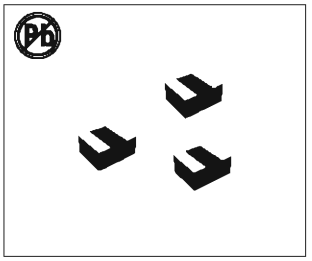
Winding

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:

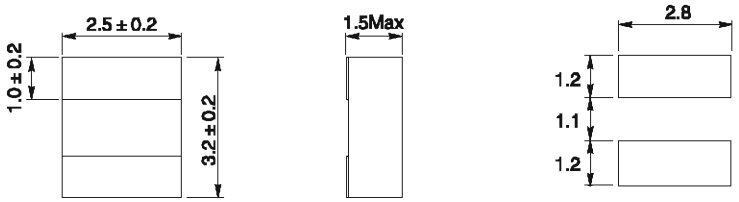
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	7.9

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



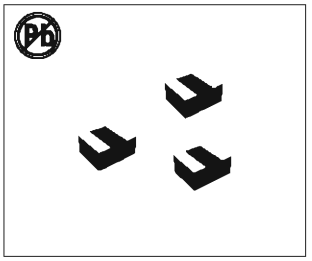
Winding

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:

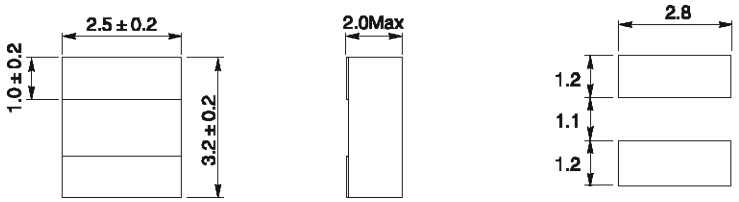
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



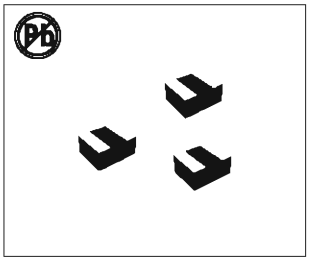
Winding

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:

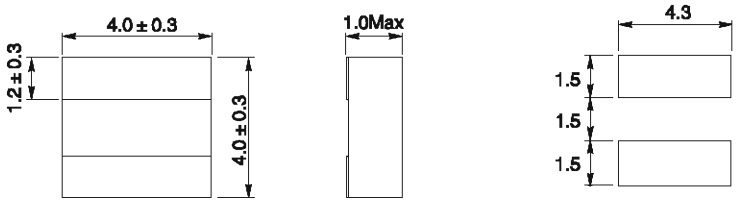
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



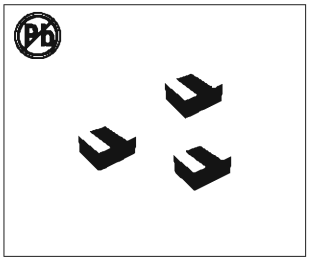
Winding

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:

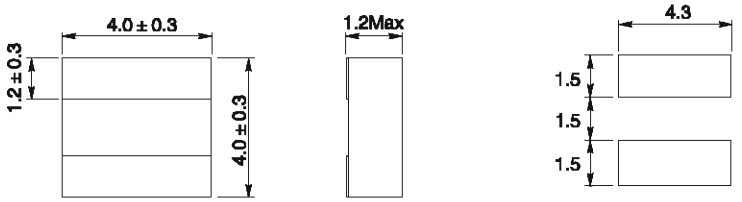
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	96.0	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)



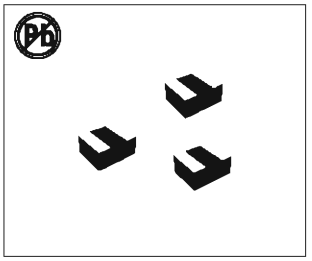
Winding

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:

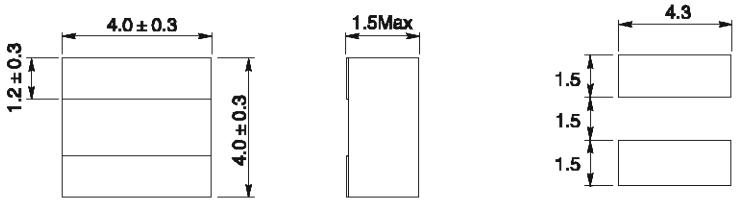
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	9.2	10.0	12.0	15.0
LPM4015C-2R2M	2.2	6.0	6.5	35.0	39.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



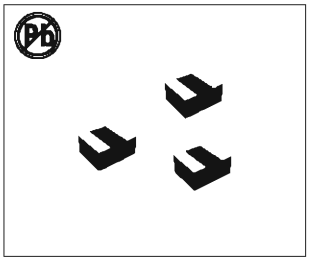
Winding

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:

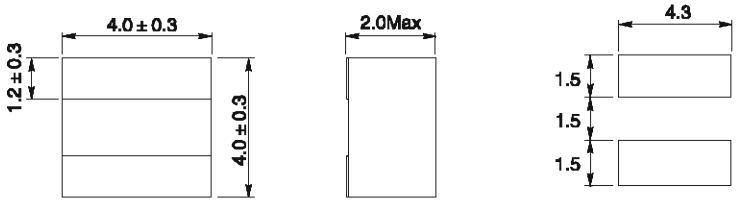
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	13.0	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:

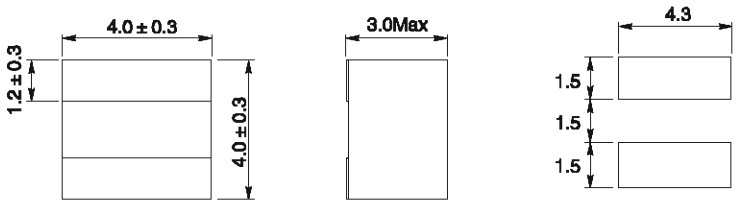
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	26.0	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)



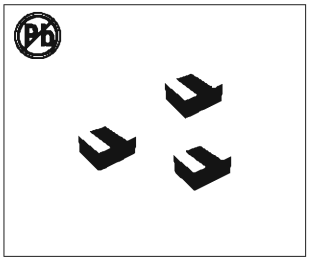
Winding

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:

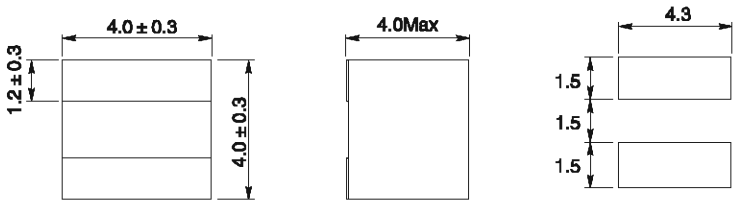
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	6.8	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)



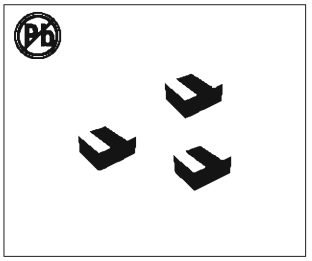
Winding

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:

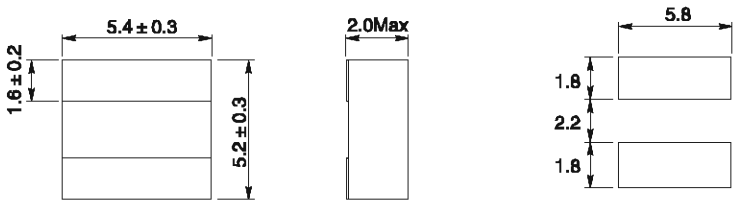
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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)



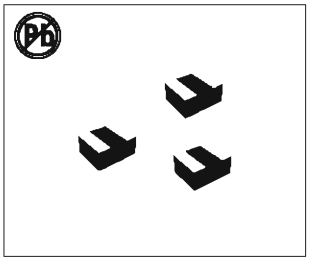
Winding

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:

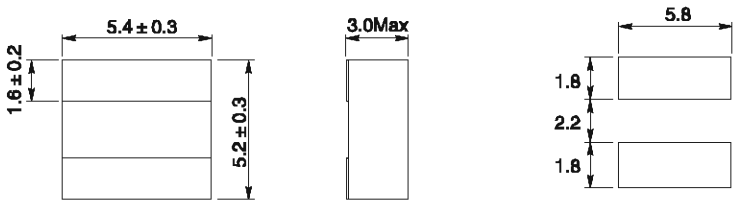
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	6.8	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 (Isat) realized by Carbonyl Iron powder
- Low profile: 6.6mm x 6.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

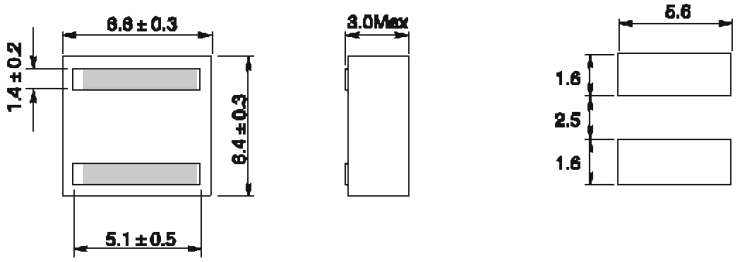
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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).
LPM6030C-R15M	0.15	35.0	43.0	1.0	1.2
LPM6030C-R22M	0.22	32.0	39.0	1.2	1.5
LPM6030C-R36M	0.36	28.0	29.0	2.0	2.4
LPM6030C-R47M	0.47	25.0	26.5	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	21.0
LPM6030C-6R8M	6.8	8.2	7.3	25.1	29.5
LPM6030C-100M	10.0	7.0	6.2	38.0	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:

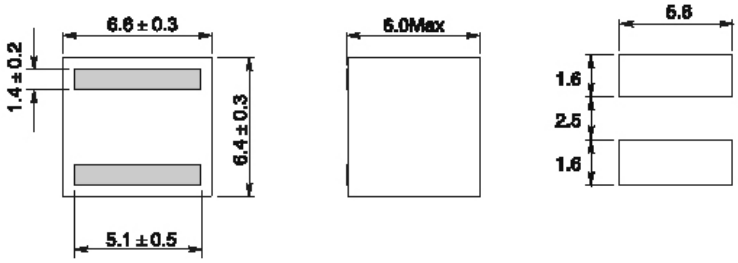
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	38.0	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 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:

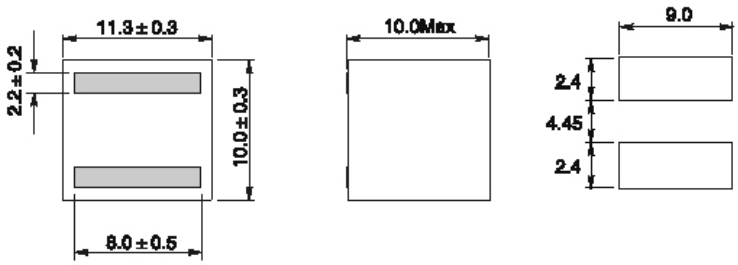
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

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	18.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



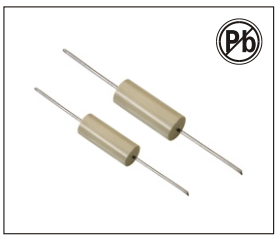
Winding

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.

MOLDED UNSHIELDED RF COILS

LTM0409 SERIES



FEATURES:

- Wire–wound Construction
- High Reliability
- Axial lead fixed inductors
- Moulded Polypropylene

CORE:

- Phenolic core up to 4.7 μ H
- Iron core above 4.7 μ H

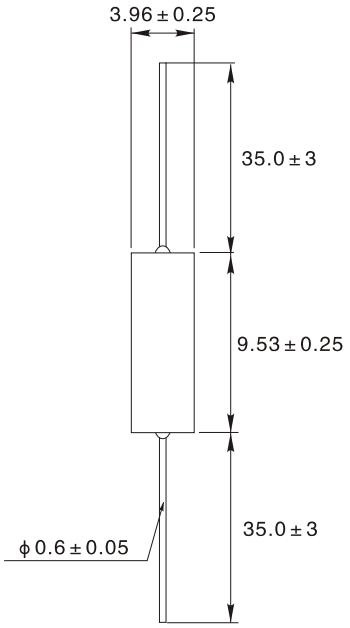
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH)	Q		SRF(MHz) Typ	DCR Max. (Ω).	Rated current(mA)
		Min	@ MHz			
LTM0409–R15M	0.15	50	25	525	0.03	2740
LTM0409–R22M	0.22	50	25	450	0.055	2020
LTM0409–R33M	0.33	45	25	360	0.09	1580
LTM0409–R47M	0.47	45	25	310	0.12	1370
LTM0409–R56K	0.56	50	25	280	0.135	1290
LTM0409–R68K	0.68	50	25	250	0.15	1220
LTM0409–R82K	0.82	50	25	220	0.22	1020
LTM0409–1R0K	1.00	50	25	200	0.29	880
LTM0409–1R2K	1.20	33	7.9	180	0.42	730
LTM0409–1R5K	1.50	33	7.9	160	0.50	670
LTM0409–1R8K	1.80	33	7.9	150	0.65	590
LTM0409–2R2K	2.20	33	7.9	135	0.95	485
LTM0409–2R7K	2.70	33	7.9	120	1.20	430
LTM0409–3R3K	3.30	33	7.9	110	2.00	335
LTM0409–3R9K	3.90	33	7.9	100	2.30	310
LTM0409–4R7K	4.70	33	7.9	90	2.60	294
LTM0409–5R6K	5.60	45	7.9	60	0.32	565
LTM0409–6R8K	6.80	50	7.9	55	0.50	450
LTM0409–8R2K	8.20	50	7.9	50	0.60	410
LTM0409–100K	10.0	55	7.9	45	0.90	335
LTM0409–120K	12.0	65	2.5	42	1.10	305
LTM0409–150K	15.0	65	2.5	40	1.40	271
LTM0409–180K	18.0	75	2.5	34	2.25	213
LTM0409–220K	22.0	75	2.5	30	2.50	202
LTM0409–240J	24.0	60	2.5	26	2.50	202
LTM0409–270K	27.0	60	2.5	25	2.60	198
LTM0409–270J	27.0	60	2.5	25	2.60	198
LTM0409–300J	30.0	65	2.5	21	2.80	191
LTM0409–330K	33.0	65	2.5	19	3.00	185
LTM0409–330J	33.0	65	2.5	19	3.00	185
LTM0409–360J	36.0	60	2.5	15.5	2.50	202
LTM0409–390J	39.0	60	2.5	14.5	2.60	198
LTM0409–430J	43.0	60	2.5	13.7	2.7	194
LTM0409–470J	47.0	55	2.5	13.0	2.75	193
LTM0409–510J	51.0	55	2.5	12.7	2.85	189
LTM0409–560J	56.0	55	2.5	12.0	3.0	184
LTM0409–620J	62.0	55	2.5	11.5	3.15	180
LTM0409–680J	68.0	55	2.5	11.0	3.3	176
LTM0409–750J	75.0	55	2.5	10.5	3.7	166
LTM0409–820J	82.0	50	2.5	10.3	3.9	162
LTM0409–910J	91.0	50	2.5	10.0	4.3	154
LTM0409–101J	100.0	50	2.5	9.5	4.5	151
LTM0409–111J	110.0	60	0.79	8.9	4.9	144
LTM0409–121J	120.0	65	0.79	8.7	5.2	140
LTM0409–131J	130.0	65	0.79	8.5	5.45	137
LTM0409–151J	150.0	65	0.79	8.0	6.05	130
LTM0409–161J	160.0	65	0.79	7.5	6.40	126
LTM0409–181J	180.0	65	0.79	7.0	6.75	123
LTM0409–201J	200.0	65	0.79	6.5	7.10	120
LTM0409–221J	220.0	65	0.79	6.2	7.45	117
LTM0409–241J	240.0	65	0.79	5.9	7.80	115

Note: J= ± 5%,K= ± 10%,M= ± 20%

SIZE:

Dimensions(mm)



WINDING:

NOTES:

Core

0~4.7uH: Phenolic core

4.7~240uH: Iron core

Current rating at 90℃ ambient

0~4.7uH: 35℃ Rise

4.7uH~240uH: 15℃ Rise

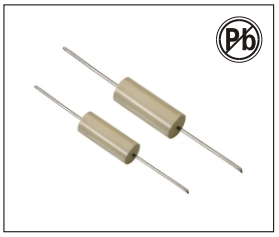
Operating temperature range

0~4.7uH: –55℃ to +125℃

4.7uH~240uH: –55℃ to 105℃

MOLDED UNSHIELDED RF COILS

LTM0511 SERIES



FEATURES:

- Wire–wound Construction
- High Reliability
- Axial lead fixed inductors
- Moulded Polypropylene

CORE:

- Thermoset plastic core up to 0.68 μ H
- Ferrite core above 0.68 μ H

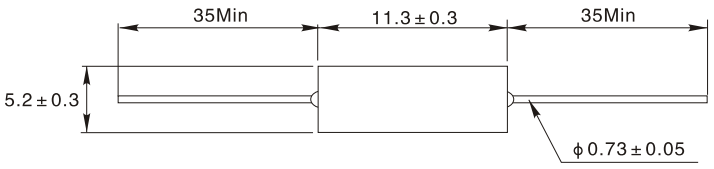
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH)	Q		SRF(MHz) Typ	DCR Typ. (Ω).	Rated current(A)
		Typ	@ MHz			
LTM0511–R10K	0.1	65	25	400	0.025	3.0
LTM0511–R15K	0.15	65	25	400	0.035	2.5
LTM0511–R22K	0.22	55	25	400	0.045	2.0
LTM0511–R33K	0.33	55	25	350	0.055	2.0
LTM0511–R47K	0.47	55	25	320	0.07	1.7
LTM0511–R68K	0.68	45	15	290	0.09	1.5
LTM0511–1R0K	1.0	45	15	190	0.04	2.2
LTM0511–1R5K	1.5	65	8	155	0.05	2.0
LTM0511–2R2K	2.2	60	8	130	0.06	1.8
LTM0511–3R3K	3.3	50	8	110	0.07	1.7
LTM0511–4R7K	4.7	50	8	95	0.12	1.3
LTM0511–6R8K	6.8	60	8	85	0.22	1.0
LTM0511–100K	10	50	8	65	0.35	0.75
LTM0511–150K	15	55	2.5	55	0.6	0.6
LTM0511–220K	22	65	2.5	45	1.1	0.43
LTM0511–330K	33	85	2.5	35	2.0	0.3
LTM0511–470K	47	70	2.5	20	2.5	0.27
LTM0511–680K	68	65	2.5	16	3.0	0.25
LTM0511–101K	100	65	1.5	14	4.0	0.22
LTM0511–151K	150	80	0.8	9.5	5.8	0.23
LTM0511–221K	220	80	0.8	8.0	7.3	0.2
LTM0511–331K	330	80	0.8	9.5	12	0.16
LTM0511–471K	470	80	0.8	6.5	20	0.12
LTM0511–681K	680	85	0.8	5.0	24	0.11
LTM0511–102K	1000	85	0.8	3.0	30	0.1

Note: J=±5%,K=±10%,M=±20%

SIZE & WINDING:

Dimensions(mm)



NOTES:

Core

0~0.68uH:	Thermoset plastic core
0.68~1000uH:	Ferrite core
Coating:	Moulded polypropylene
Working temperature:	–55℃ to +85℃ ambient
Rated current max:	Maximum current at 85℃ ambient