

CMI-CMMPP5030HL-SERIES



Features

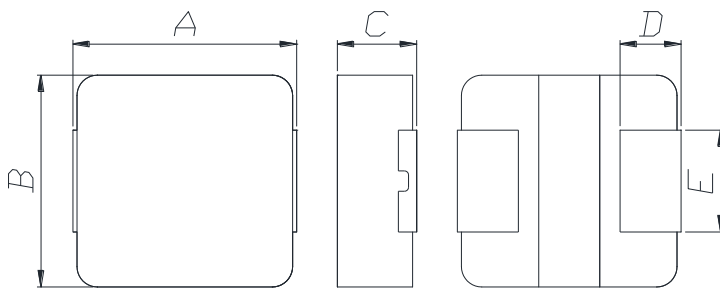
- ▶ High current and low profile.
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant
- ▶ AEC-Q200 qualified.
- ▶ Halogen-Free

Applications

- ▶ Equipment using for automobiles (ECM, airbags, headlights, electronic Powder steering, motors, ABS, other)

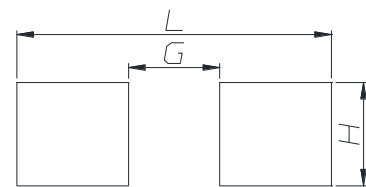


Dimension (Unit:mm)



A	B	C	D	E
5.4±0.35	5.2±0.25	3.0 Max	1.5±0.2	2.5±0.2

Land Pattern (Unit:mm)



L	G	H
6.0	2.2	2.5

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max(Typ)	Isat(A) Max(Typ)	Itemp(A) Max(Typ)	Test Frequency (Hz)
CMI-CMMPP5030HL-R47M	0.47	7.2(6.0)	14.00(16.00)	12.50(13.50)	1M
CMI-CMMPP5030HL-R68M	0.68	7.8(6.5)	13.00(15.00)	12.00(13.00)	1M
CMI-CMMPP5030HL-1R0M	1.0	12(10)	10.00(11.00)	8.50(9.50)	1M
CMI-CMMPP5030HL-2R2M	2.2	24(20)	9.00(9.50)	8.00(8.50)	1M
CMI-CMMPP5030HL-3R3M	3.3	36(30)	7.50(8.00)	5.70(6.00)	1M
CMI-CMMPP5030HL-4R7M	4.7	44.4(37)	6.50(7.00)	5.00(5.40)	1M
CMI-CMMPP5030HL-5R6M	5.6	60(50)	5.50(6.00)	4.30(4.80)	1M
CMI-CMMPP5030HL-6R8M	6.8	66(55)	5.00(5.50)	3.50(3.90)	1M
CMI-CMMPP5030HL-100M	10	100(85)	3.60(4.00)	3.20(3.60)	1M
CMI-CMMPP5030HL-150M	15	200(170)	3.40(3.80)	2.50(2.80)	1M

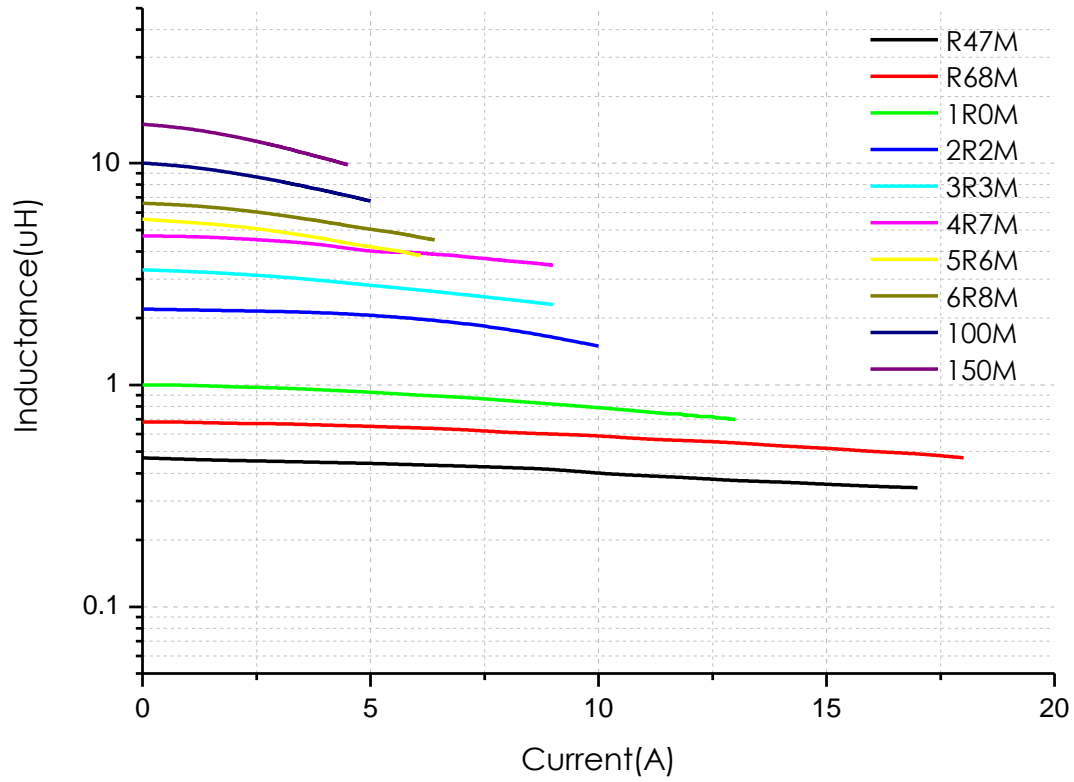
- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range(including self temperature) : -40°C ~ +165 °c

Note 1 : 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.

- All specifications are subject to change without notice.
- Update date : 2019.02.07

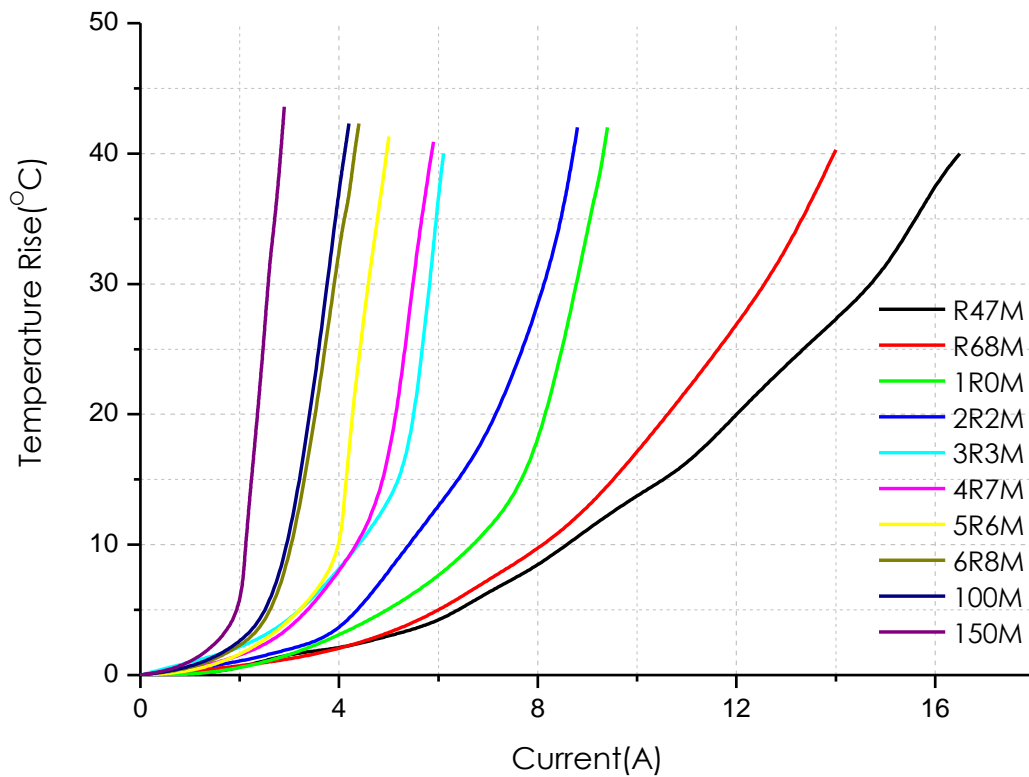
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DC BIAS vs INDUCTANCE



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DC BIAS vs TEMPERATURE

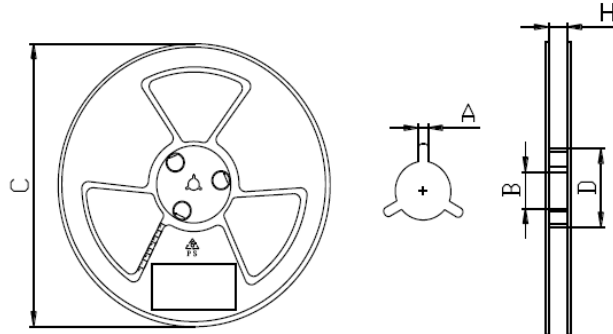


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Packaging

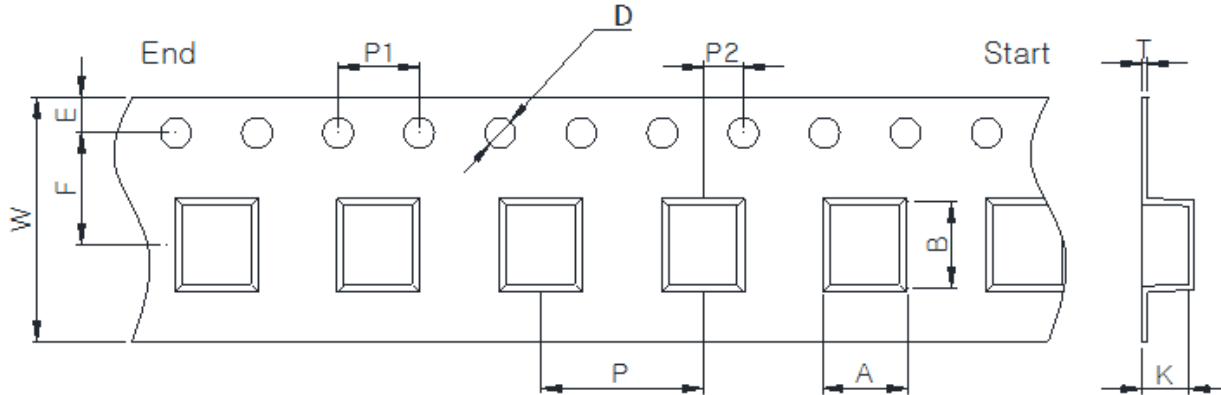
(1) Package quantity : 1,500 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	H
2.30	10.75	330.0	100.0	12.5
+0.30	+0.30	+3.00	+1.00	+0.50
-0.30	-0.30	-3.00	-1.00	-0.50

(3) Tape Dimensions



W	A	B	K	E	F	P	P1	P2	D	T
16.00	5.60	6.40	3.20	1.75	7.50	8.00	4.00	2.00	1.50	0.30
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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