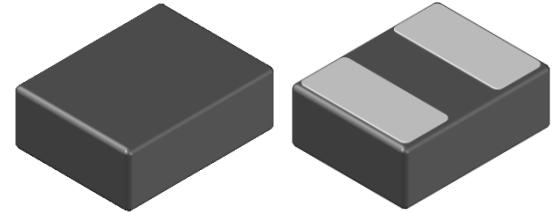


CMI-MMP322512BC-SERIES

Features

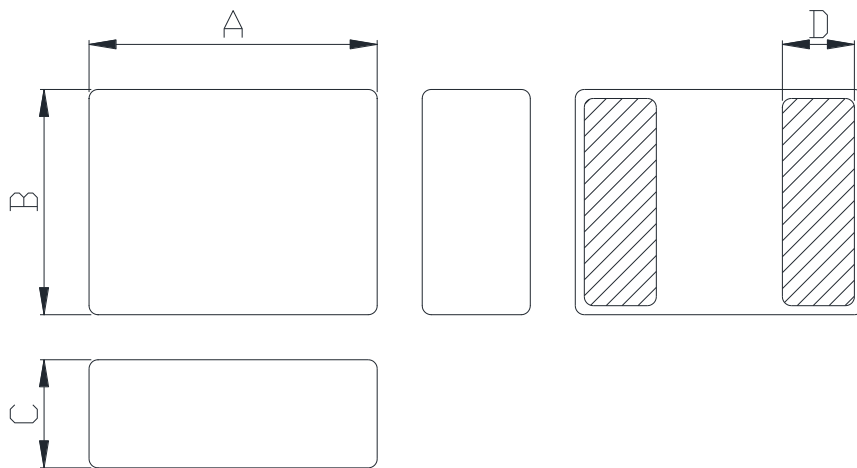
- ▶ Low profile and Compact design.
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free
- ▶ RoHS compliant.



Applications

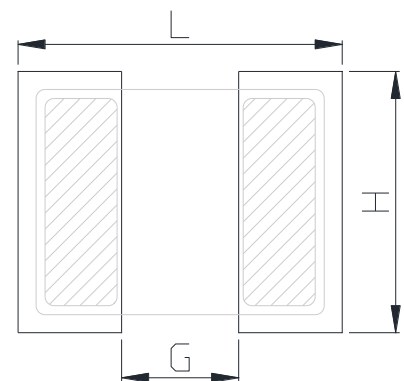
- ▶ For DC/DC converter
(Mobile phone, Tablet, TV, Audio, Display, HDD, SSD etc.)

Dimension (Unit:mm)



A	B	C	D
3.2 ±0.3	2.5 ±0.3	1.2 Max.	0.8 ±0.3

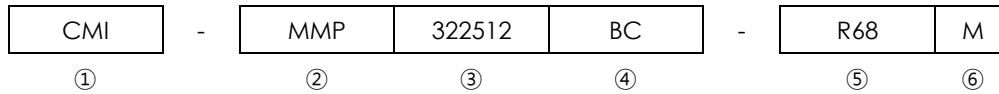
Land Pattern (Unit:mm)



G	H	L
1.3	2.9	3.6

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Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Metal Molded Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.68uH)
- ⑥ Inductance tolerance (±20%)

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-MMP322512BC-R68M	0.68	37.2(31)	6.50(7.20)	4.00(4.20)	1M
CMI-MMP322512BC-1R0M	1.0	48(40)	5.90(6.20)	3.40(3.60)	1M
CMI-MMP322512BC-2R2M	2.2	72(60)	4.00(4.40)	2.80(3.20)	1M
CMI-MMP322512BC-3R3M	3.3	156(130)	3.50(3.70)	1.80(2.00)	1M
CMI-MMP322512BC-4R7M	4.7	195(162)	2.80(3.10)	1.60(1.90)	1M
CMI-MMP322512BC-6R8M	6.8	260(220)	1.90(2.20)	1.50(1.70)	1M
CMI-MMP322512BC-100M	10	390(330)	1.30(1.60)	1.00(1.10)	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 ~ +125 °c

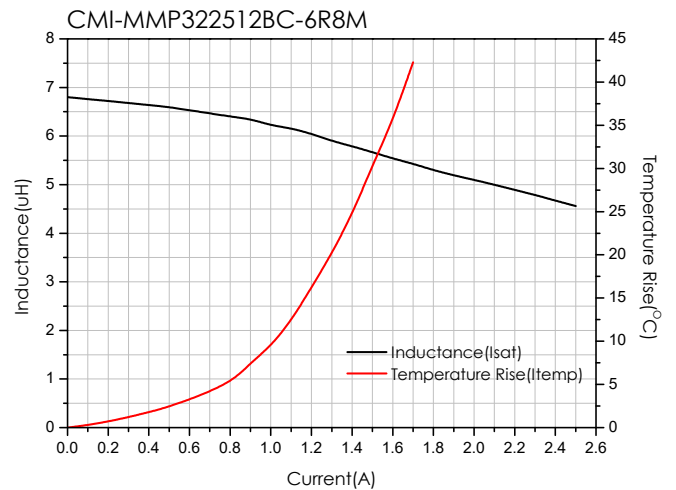
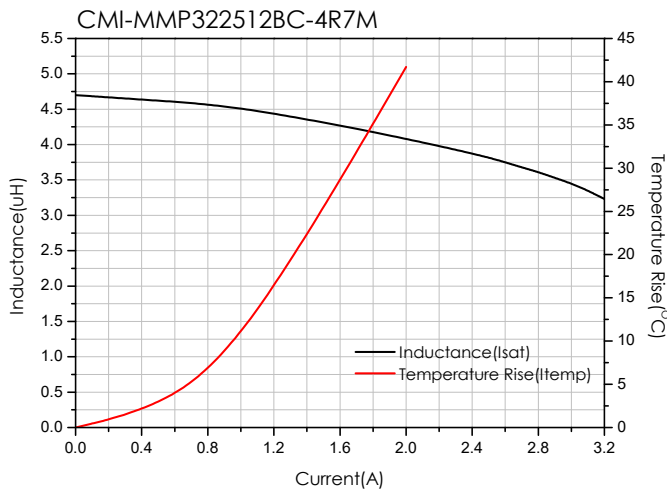
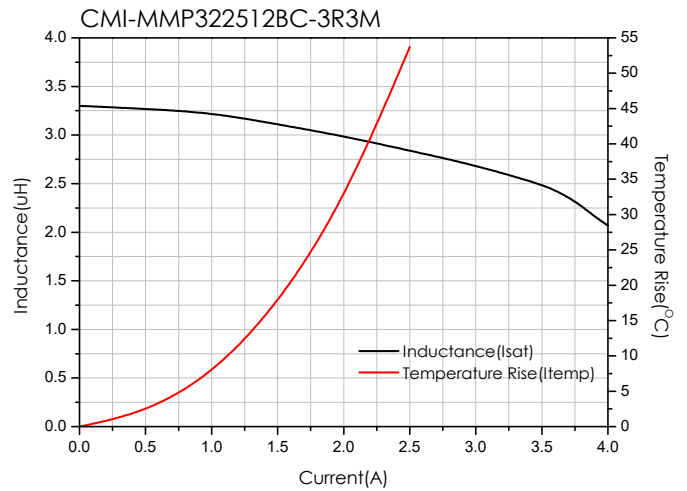
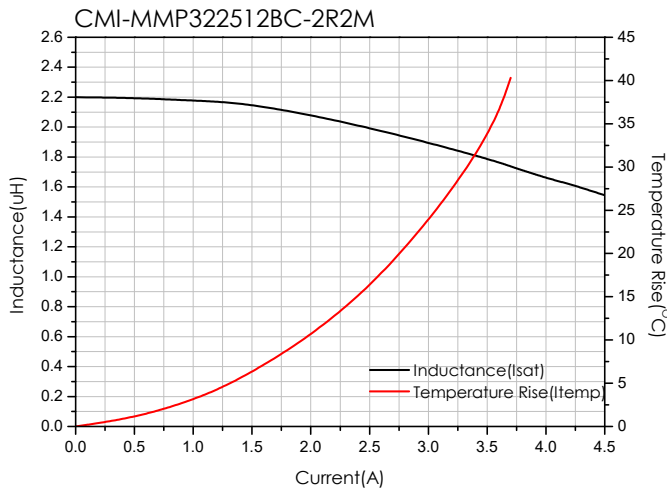
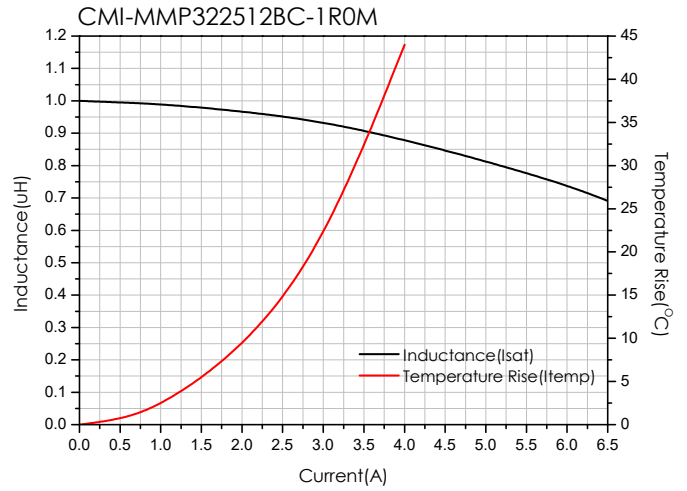
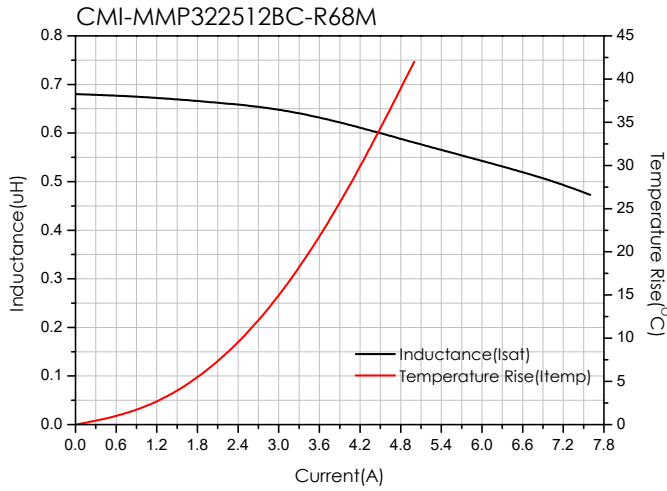
Note 1: Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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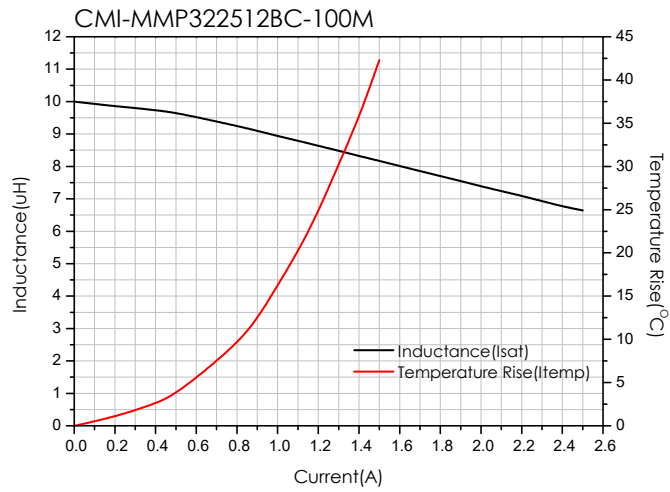
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Electrical characteristics



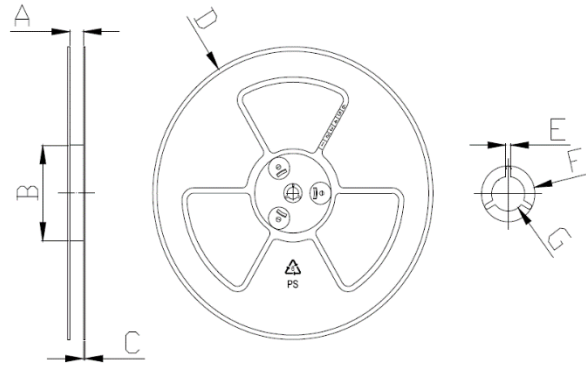
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Packaging

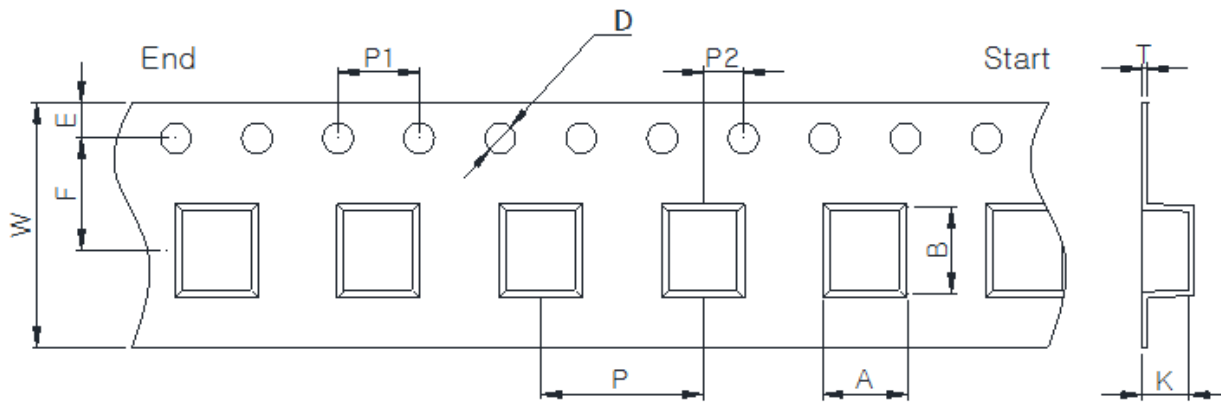
(1) Package quantity: 5,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
12.50	100.0	2.00	330.0	1.90	21.00	13.00
+1.00	+1.50	+0.10	+1.00	+0.40	+0.40	+0.40
-1.00	-1.50	-0.10	-1.00	-0.40	-0.40	-0.40

(3) Tape Dimensions



W	A	B	K	E	F	P	P1	P2	D	T
12.00	3.00	3.70	3.20	1.75	5.50	8.00	4.00	2.00	1.50	0.30
+0.30	+0.10	+0.10	+0.10	+0.15	+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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