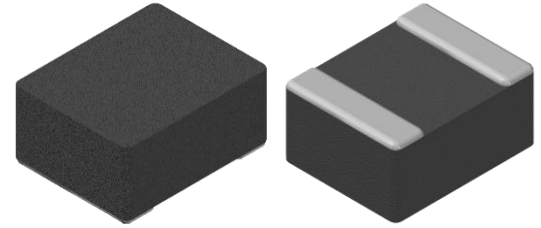


CMI-CMMP252012BC-SERIES

Features

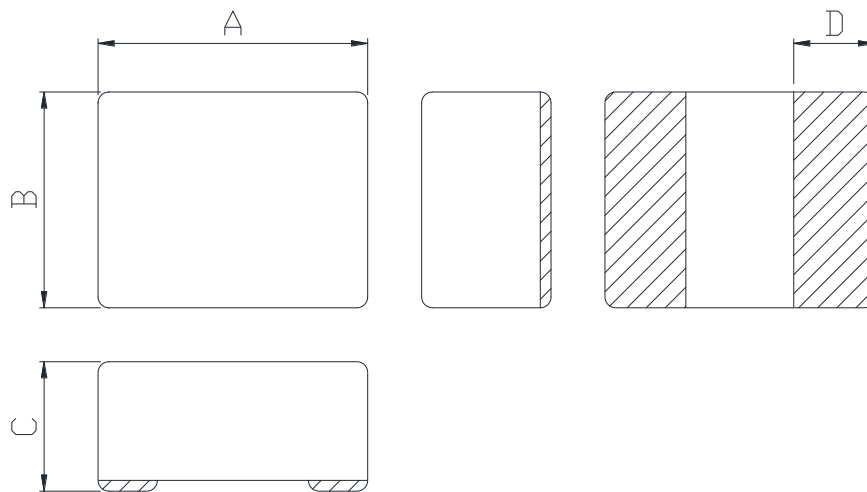
- ▶ Small size and Low profile.
- ▶ Compact design.
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

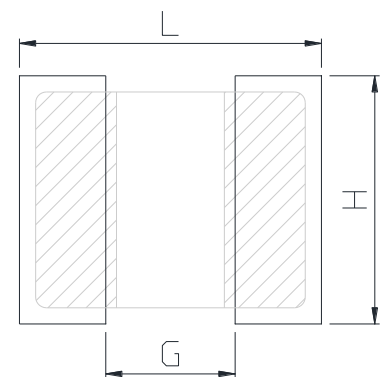
- ▶ Car navigation, Car stereo and Car accessories, ADAS ECU, In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

Dimension (Unit:mm)



A	B	C	D
2.5 ±0.2	2.0 ±0.2	1.2 Max.	0.75 ±0.25

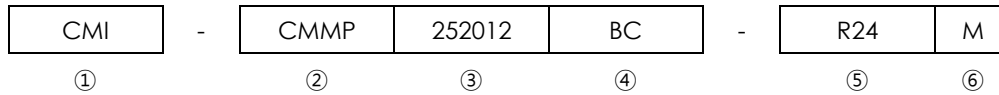
Land Pattern (Unit:mm)



L	G	H
2.8	1.2	2.3

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Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.24uH)
- ⑥ Inductance tolerance ($\pm 20\%$)

Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMP252012BC-R24M	0.24	21.6(18)	7.80(8.20)	6.00(6.30)	1M
CMI-CMMP252012BC-R33M	0.33	25.2(21)	6.60(7.00)	5.00(5.30)	1M
CMI-CMMP252012BC-R47M	0.47	36(30)	6.20(6.70)	4.00(4.40)	1M
CMI-CMMP252012BC-R68M	0.68	45.6(38)	5.40(5.90)	3.60(4.00)	1M
CMI-CMMP252012BC-1R0M	1.0	66(47)	4.00(4.40)	3.00(3.30)	1M
CMI-CMMP252012BC-1R2M	1.2	72(60)	3.60(3.90)	2.70(3.00)	1M
CMI-CMMP252012BC-1R5M	1.5	80(67)	3.10(3.40)	2.40(2.70)	1M
CMI-CMMP252012BC-2R2M	2.2	114(95)	2.60(2.90)	2.00(2.20)	1M
CMI-CMMP252012BC-3R3M	3.3	168(140)	2.30(2.60)	1.80(2.00)	1M
CMI-CMMP252012BC-4R7M	4.7	240(200)	1.70(1.90)	1.30(1.50)	1M
CMI-CMMP252012BC-6R8M	6.8	300(250)	1.40(1.60)	1.10(1.30)	1M
CMI-CMMP252012BC-100M	10	456(380)	1.10(1.30)	0.90(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 ~ +150 °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.

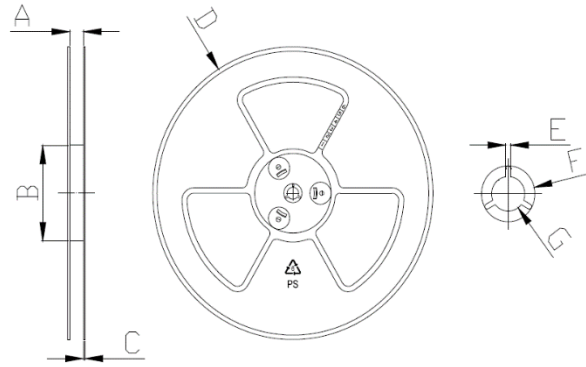
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Packaging

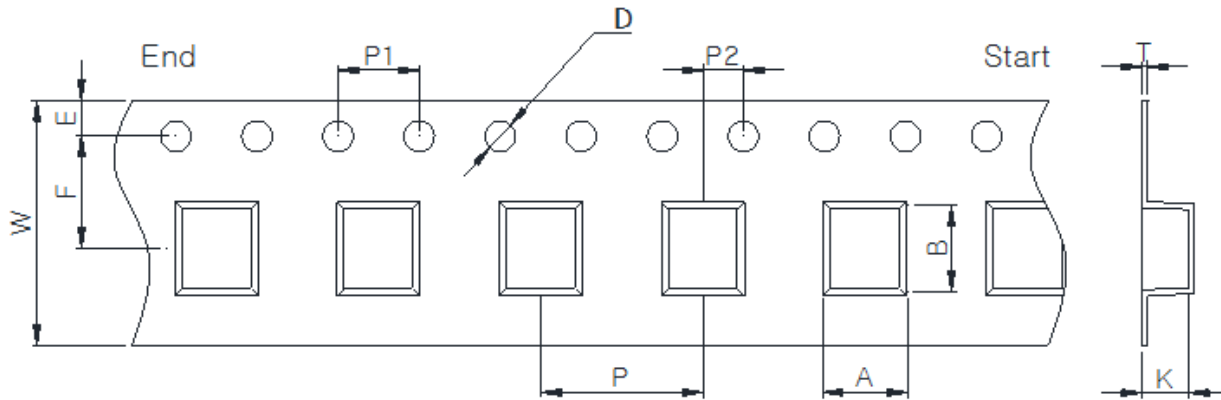
(1) Package quantity: 3,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
8.50	60.0	1.50	178.0	2.70	22.50	13.50
+0.50	+2.00	+0.20	+1.00	+0.30	+0.50	+0.50
-0.50	-2.00	-0.20	-1.00	-0.30	-0.50	-0.50

(3) Tape Dimensions



W	A	B	K	E	F	P	P1	P2	D	T
8.00	2.45	3.05	1.30	1.75	3.50	4.00	4.00	2.00	1.50	0.30
+0.10	+0.10	+0.10	+0.10	+0.15	+0.10	+0.10	+0.10	+0.05	+0.10	+0.05
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.05	-0.00	-0.05

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