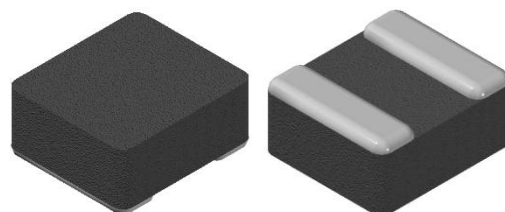


CMI-CMMPF141206BC-SERIES

Features

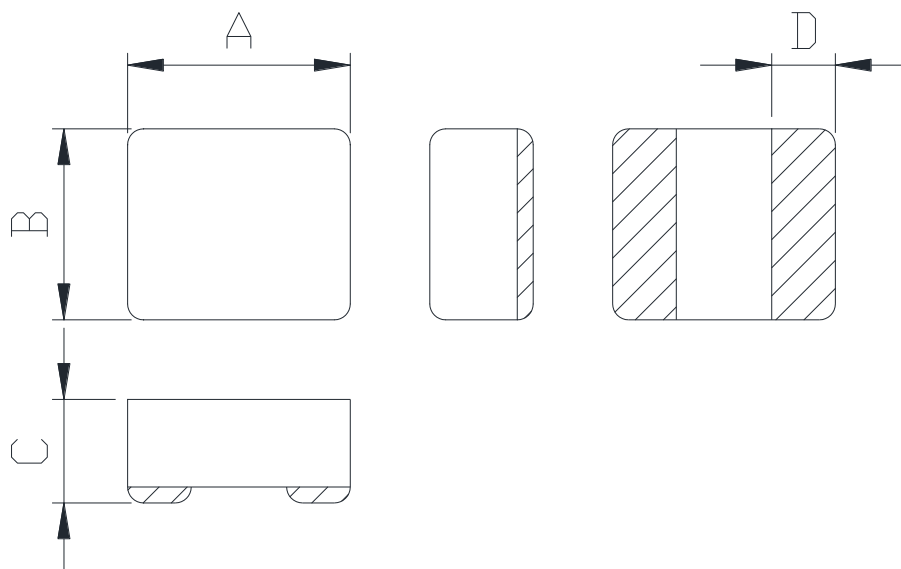
- ▶ Small size, high current and low profile
- ▶ Lower DCR with applying flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

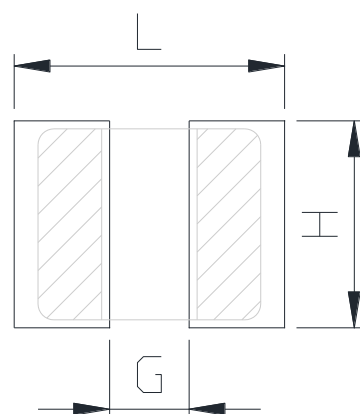
- ▶ Car navigation, Car Audio, ADAS ECU,
In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

Dimension (Unit:mm)



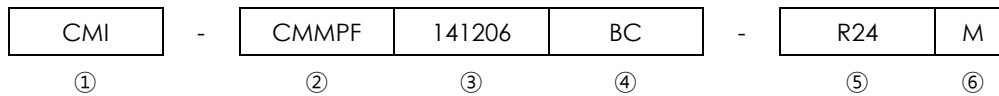
A	B	C	D
1.4 ±0.2	1.2 ±0.2	0.65 Max.	0.4 ±0.15

Land Pattern (Unit:mm)



L	G	H
1.7	0.5	1.3

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Flat wire Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.24uH)
- 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-CMMPF141206BC-R24M	0.24	24(22)	6.80(6.50)	6.00(6.50)	1M
CMI-CMMPF141206BC-R33M	0.33	32(26)	4.00(4.40)	4.20(4.40)	1M
CMI-CMMPF141206BC-R47M	0.47	38(35)	3.60(4.00)	3.20(3.50)	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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▪ **You can also contact us by e-mail : coilmaster@coilmaster.com**

- All specifications are subject to change without notice.
- Update date : 2025.07.23 (Rev.1.1)

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