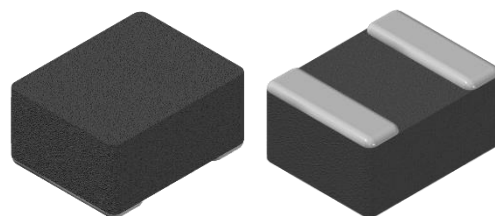


# CMI-CMMPF201612BC-SERIES

## Features

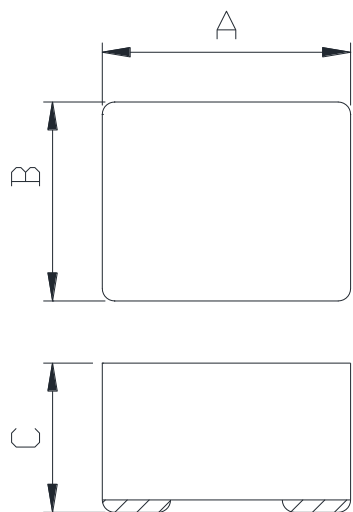
- ▶ Small size, high current and low profile
- ▶ Lower DCR with applying flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



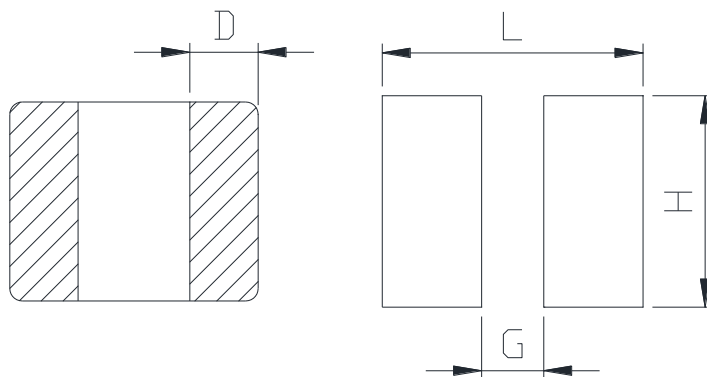
## Applications

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

## Dimension (Unit:mm)

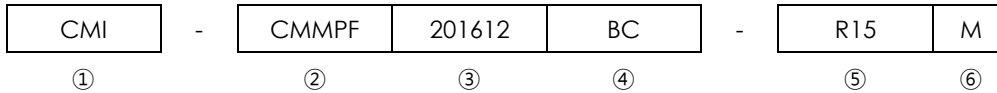


## Land Pattern (Unit:mm)



A	B	C	D	L	G	H
2.0 ±0.2	1.6 ±0.2	1.2 Max.	0.5 ±0.3	2.1	0.5	1.7

## 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 (0.15uH)
- 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-CMMPF201612BC-R15M	0.15	15(12)	8.80(9.80)	8.10(9.00)	1M
CMI-CMMPF201612BC-R47M	0.47	20.4(17)	6.00(6.60)	5.10(5.60)	1M
CMI-CMMPF201612BC-1R0M	1.0	38(31)	4.00(4.40)	4.20(4.60)	1M
CMI-CMMPF201612BC-2R2M	2.2	80(69)	2.75(2.95)	2.50(2.75)	1M
CMI-CMMPF201612BC-3R3M	3.3	120(90)	2.10(2.40)	2.20(2.50)	1M
CMI-CMMPF201612BC-4R7M	4.7	200(167)	2.00(2.20)	1.60(1.80)	1M
CMI-CMMPF201612BC-6R8M	6.8	300(270)	1.00(1.20)	0.80(1.00)	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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- All specifications are subject to change without notice.
- Update date : 2024.04.09

[www.coilmaster.com](http://www.coilmaster.com)