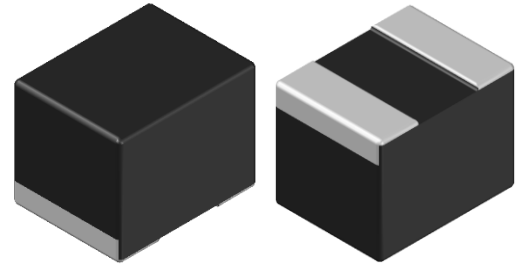


# CMI-CMMPF3225BC-R042M

## Features

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

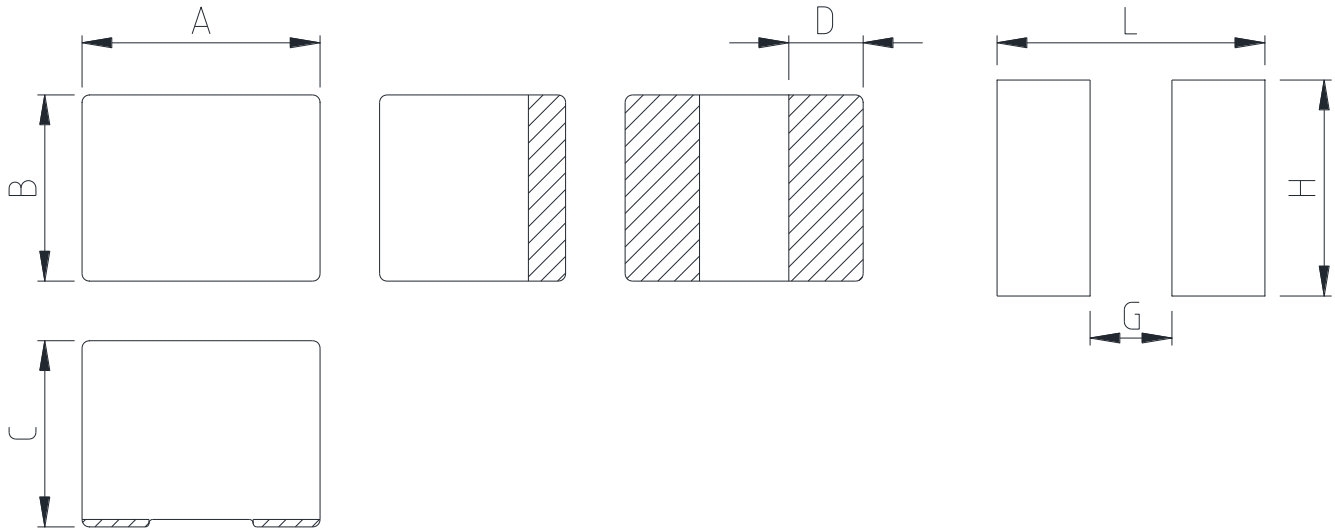


## Applications

- ▶ PMIC systems in automotive device, High efficiency DC-DC Converter

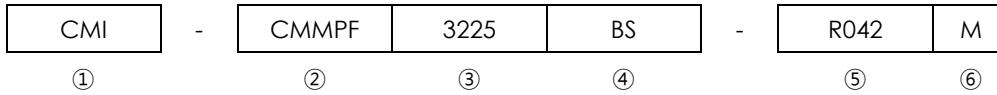
## Dimension (Unit:mm)

## Land Pattern (Unit:mm)



A	B	C	D	L	G	H
3.2 ±0.2	2.5 ±0.2	2.5 ±0.2	1.0 ±0.3	3.6	1.1	2.9

## 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 (0.042uH)
- 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-CMMPF3225BC-R042M	0.042	1.0(0.6)	35.0(39.0)	36.0(40.0)	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 : 2024.10.30