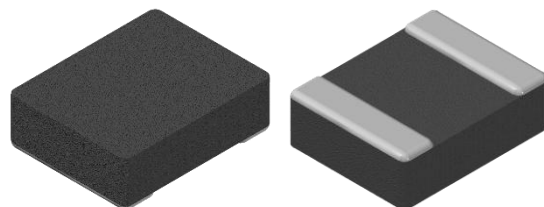


CMI-CMMPF252008BC-SERIES

Features

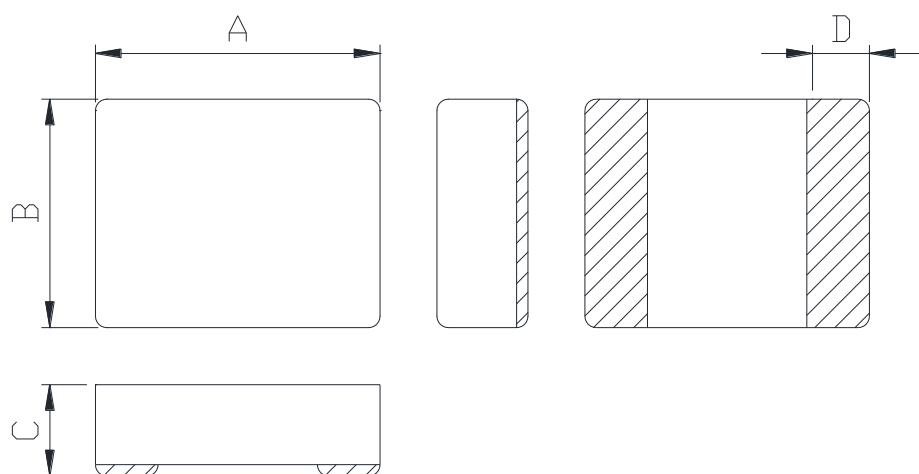
- ▶ Small size and Low profile.
- ▶ Compact design.
- ▶ Lower DCR with applying flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



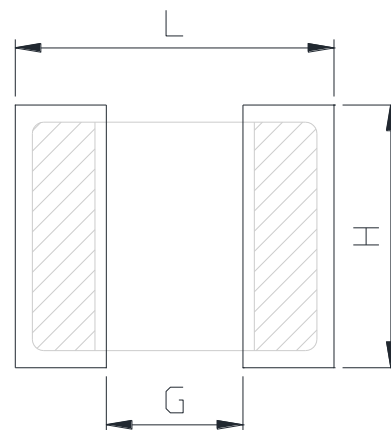
Applications

- ▶ 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
2.5 ±0.2	2.0 ±0.2	0.8 Max.	0.55 ±0.25

L	G	H
2.8	1.2	2.3

Regulation of part number

CMI	-	CMMPF	252008	BC	-	R47	M
①		②	③	④		⑤	⑥

- 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 (0.47uH)
- 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-CMMPF252008BC-R47M	0.47	27(22)	5.30(6.00)	6.00(6.50)	1M
CMI-CMMPF252008BC-1R0M	1.0	40(34)	4.00(4.50)	4.00(4.30)	1M
CMI-CMMPF252008BC-2R2M	2.2	77(69)	2.60(3.00)	2.60(3.00)	1M
CMI-CMMPF252008BC-3R3M	3.3	170(140)	2.10(2.50)	2.10(2.50)	1M
CMI-CMMPF252008BC-4R7M	4.7	180(150)	1.80(2.00)	1.50(1.70)	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.

▪ You can also contact us by e-mail : coilmaster@coilmaster.com

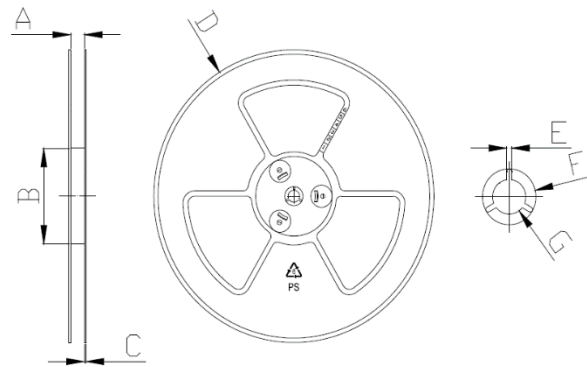
- All specifications are subject to change without notice.
- Update date : 2025.05.19 (Rev.1.0)

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Packaging

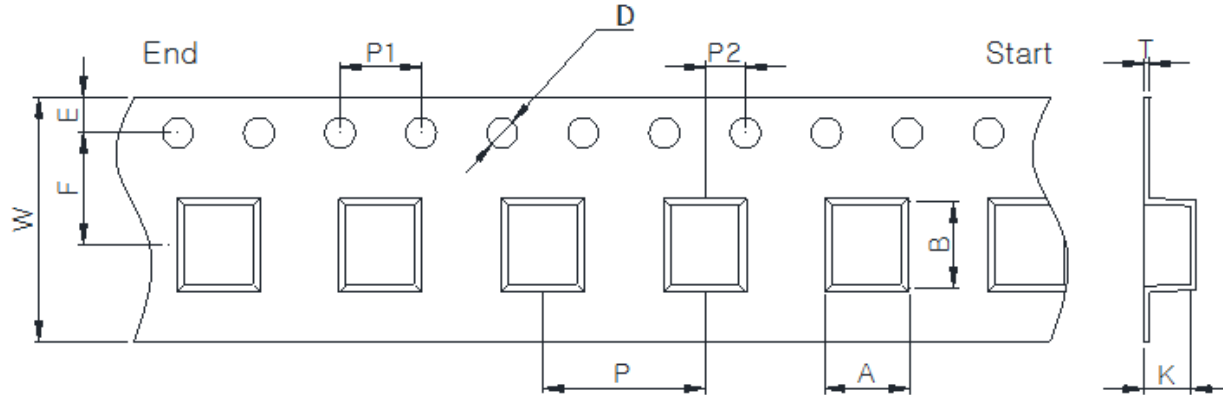
(1) Package quantity : 3,000 (pcs/reel)

(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	2.35	2.80	0.95	1.75	3.50	4.00	4.00	2.00	1.50	0.25
+0.10	+0.05	+0.05	+0.05	+0.10	+0.05	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.05	-0.05	-0.05	-0.10	-0.05	-0.10	-0.10	-0.10	-0.00	-0.05

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