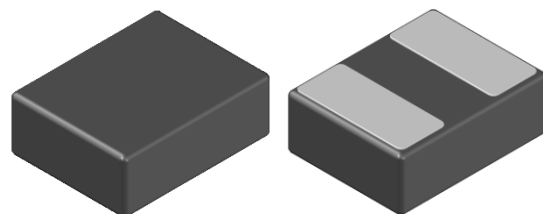


CMI-CMMPF322512BC-SERIES

Features

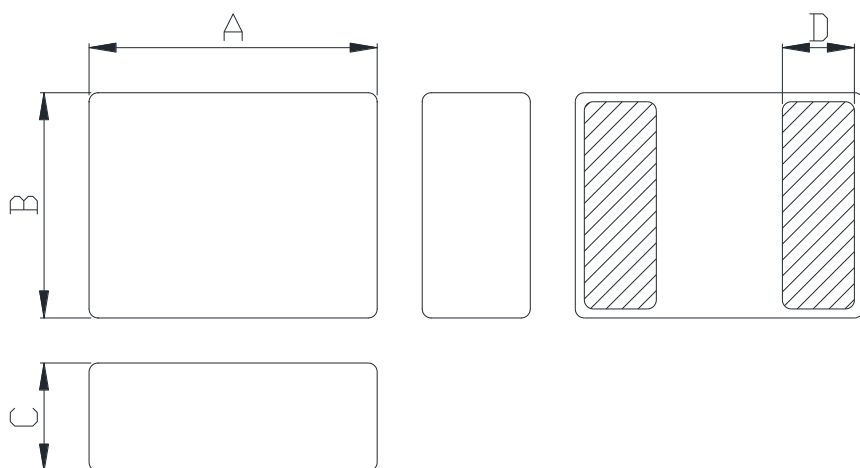
- ▶ Low profile and Compact design.
- ▶ Lower DCR with applying Flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

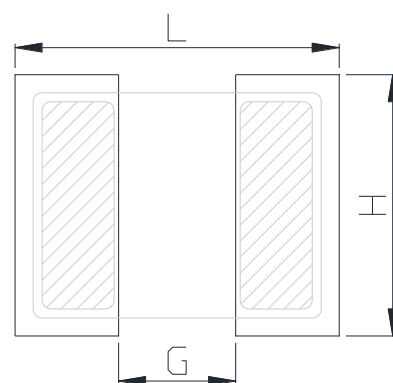
- ▶ Car navigation, Car Audio, ADAS ECU,
In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

Dimension (Unit:mm)



A	B	C	D
3.2 ±0.3	2.5 ±0.3	1.2 Max.	0.8 ±0.3

Land Pattern (Unit:mm)



G	H	L
1.3	2.9	3.6

Regulation of part number

CMI	-	CMMPF	322512	BC	-	R47	M
①		②	③	④		⑤	⑥

- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Power inductor Flat wire type
- 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-CMMPF322512BC-R47M	0.47	19(14)	8.20(8.60)	7.20(7.50)	1M
CMI-CMMPF322512BC-R68M	0.68	23(18)	7.70(8.10)	6.80(7.30)	1M
CMI-CMMPF322512BC-1R0M	1.0	30(26)	5.80(6.60)	4.80(5.30)	1M
CMI-CMMPF322512BC-2R2M	2.2	55(46)	4.50(5.10)	3.00(3.60)	1M
CMI-CMMPF322512BC-3R3M	3.3	95(75)	3.20(3.70)	2.50(2.90)	1M
CMI-CMMPF322512BC-4R7M	4.7	135(115)	2.60(2.90)	2.00(2.30)	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.

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

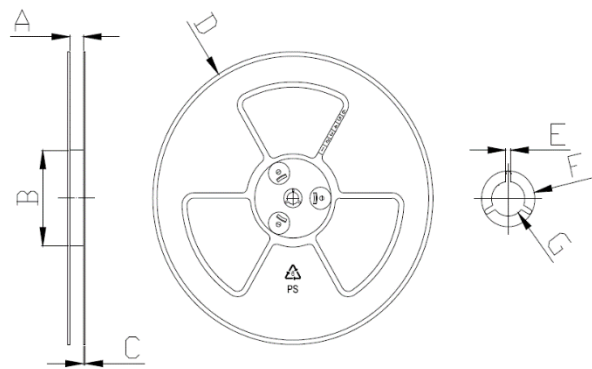
- All specifications are subject to change without notice.
- Update date : 2025.10.16 (Rev.1.2)

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Packaging

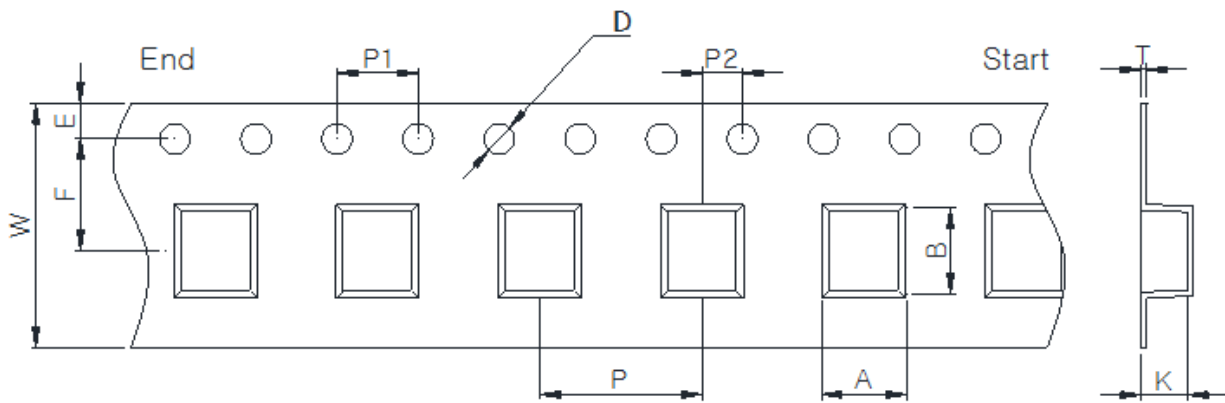
(1) Package quantity : 5,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
12.50	100.0	2.00	330.0	1.90	21.00	13.00
+1.00	+1.50	+0.10	+1.00	+0.40	+0.40	+0.40
-1.00	-1.50	-0.10	-1.00	-0.40	-0.40	-0.40

(3) Tape Dimensions



W	A	B	K	E	F	P	P1	P2	D	T
12.00	3.00	3.70	1.40	1.75	5.50	8.00	4.00	2.00	1.50	0.30
+0.30	+0.10	+0.10	+0.10	+0.15	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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