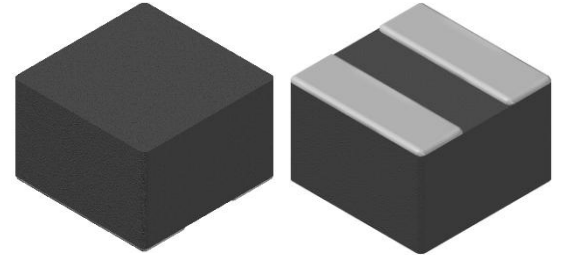




CMI-CMMPF3020BC-SERIES

Features

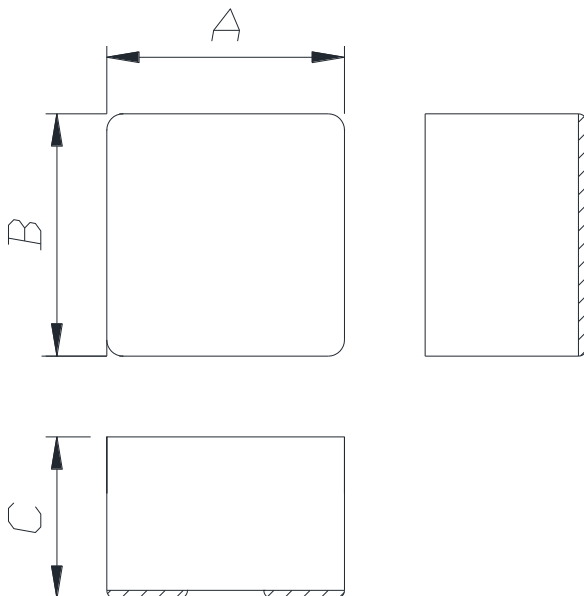
- ▶ Compact design.
- ▶ Lower DCR with applying Flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

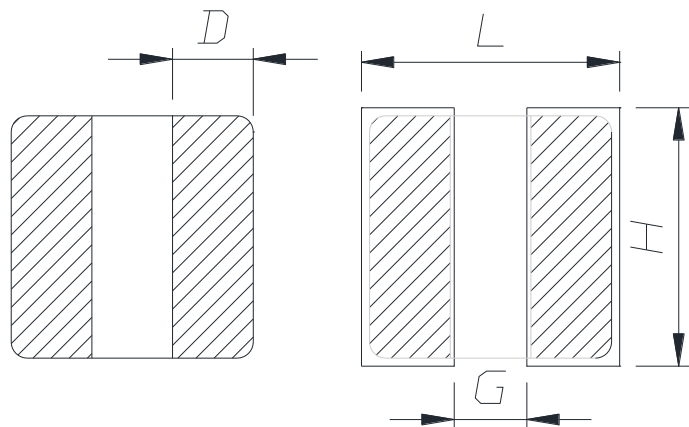
- ▶ Car navigation, Car Audio, ADAS ECU,
In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

Dimension (Unit:mm)



A	B	C	D
3.0 ±0.2	3.0 ±0.2	2.0 Max.	1.0 ±0.2

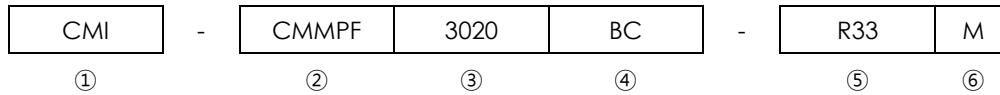
Land Pattern (Unit:mm)



L	G	H
3.2	0.9	3.2

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Regulation of part number



- 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 (0.33uH)
- 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-CMMPF3020BC-R33M	0.33	9.0(7.5)	15.0(17.0)	9.00(10.0)	1M
CMI-CMMPF3020BC-R47M	0.47	11.0(8.0)	13.5(15.0)	8.00(9.00)	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
- MSL Levels 1

a) Condition : ≤30°C/ 85% RH

b) It is strongly recommended that all the products of COILMASTER are to be installed within 36 months

c) After the date of production.If it is to be installed after 36 months from the date of production.

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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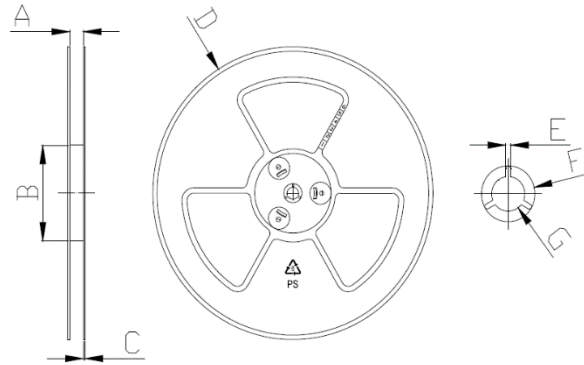
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Packaging

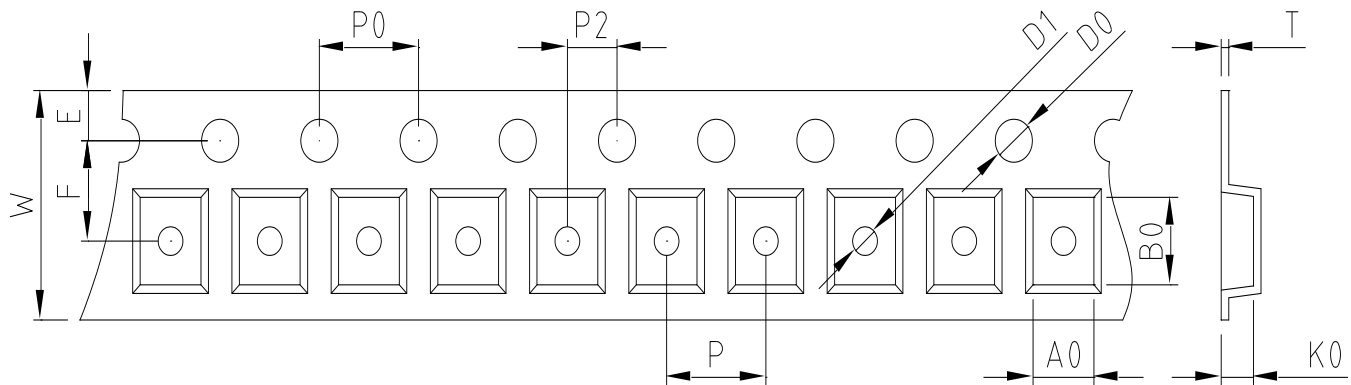
(1) Package quantity: 3,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
12.50	100.0	2.00	330.0	2.30	21.50	13.00
+1.00	+1.00	+0.10	+3.00	+0.30	+0.30	+0.50
-1.00	-1.00	-0.10	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
12.00	3.40	3.40	2.20	1.75	5.50	8.00	4.00	2.00	1.50	0.35
+0.30	+0.10	+0.10	+0.10	+0.15	+0.10	+0.10	+0.10	+0.05	+0.10	+0.05
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.05	-0.00	-0.05

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