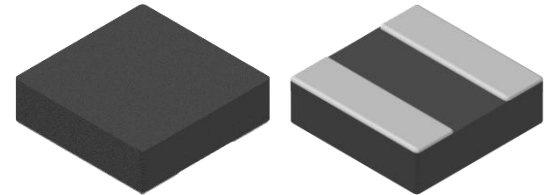


CMI-MMPF4012BC-SERIES

Features

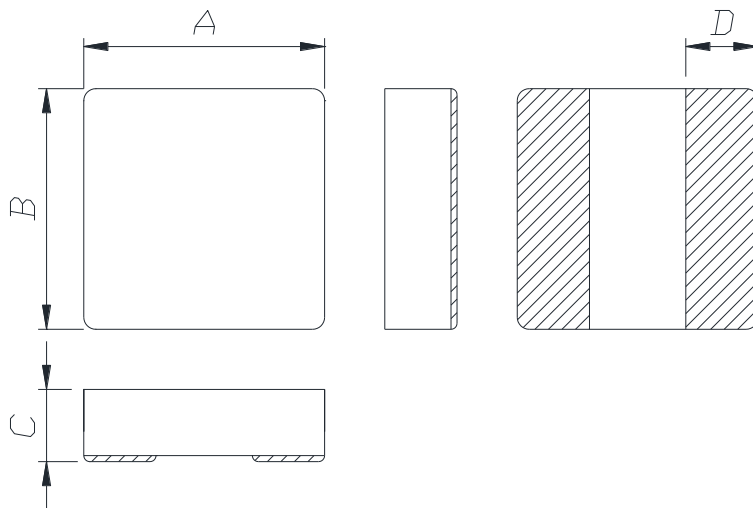
- ▶ Low profile, Compact design.
- ▶ Lower DCR with applying flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free
- ▶ RoHS compliant.



Applications

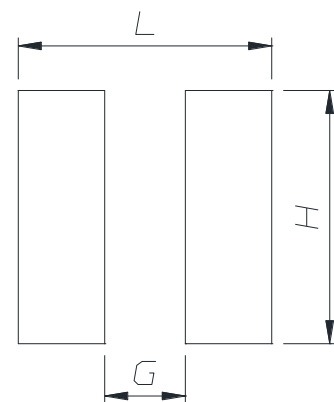
- ▶ For DC/DC converter, AV equipment digital consumer electronics

Dimension (Unit:mm)



A	B	C	D
4.0 ±0.2	4.0 ±0.2	1.2 Max.	1.2 ±0.3

Land Pattern (Unit:mm)



L	G	H
4.4	1.4	4.4

Regulation of part number

CMI	-	MMPF	4020	BS	-	1R0	M
①		②	③	④		⑤	⑥

- ① CoilMaster's initial
- ② Series Name : Metal Molded Flat wire Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (1.0uH)
- 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-MMPF4012BC-1R0M	1.0	30(25)	6.20(7.00)	4.30(5.00)	1M
CMI-MMPF4012BC-2R2M	2.2	56(48)	4.30(4.80)	3.20(3.60)	1M
CMI-MMPF4012BC-3R3M	3.3	65(56)	4.10(4.50)	2.80(3.20)	1M
CMI-MMPF4012BC-4R7M	4.7	95(86)	3.00(3.50)	2.40(2.70)	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

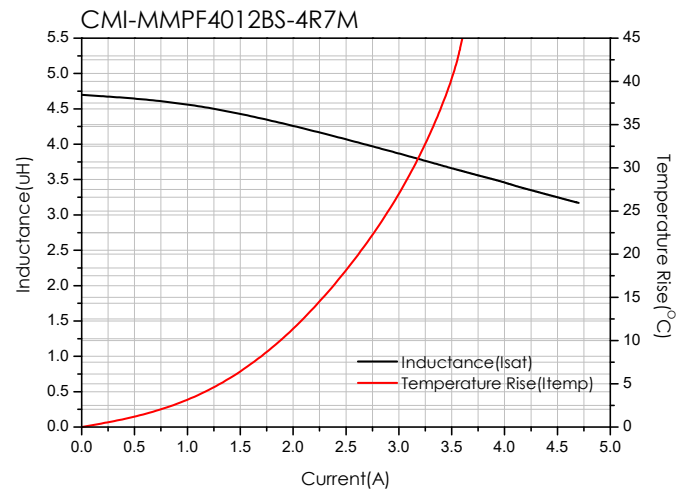
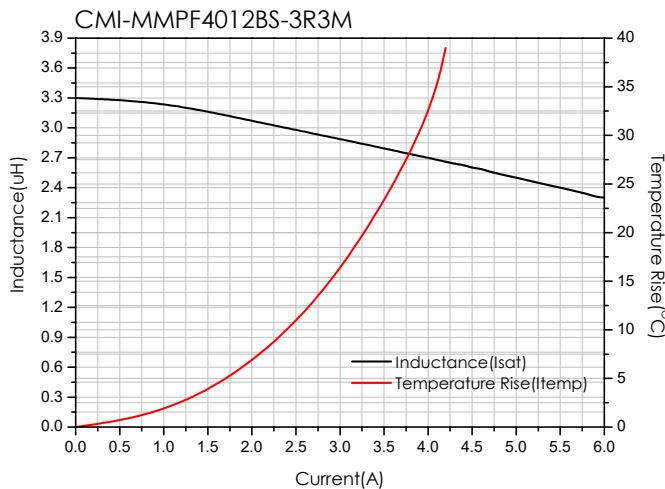
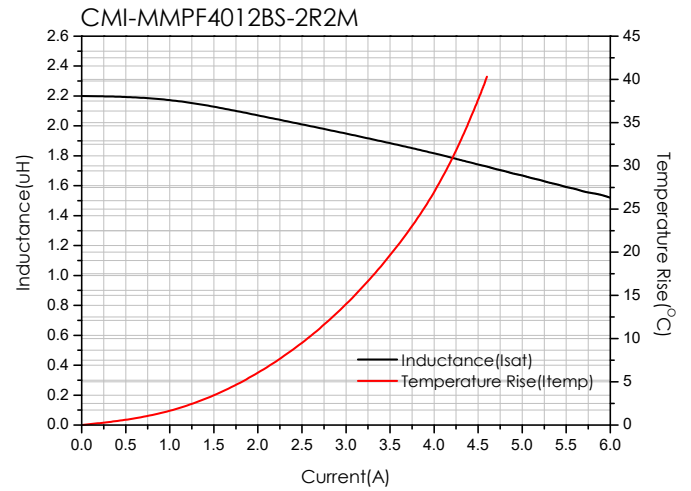
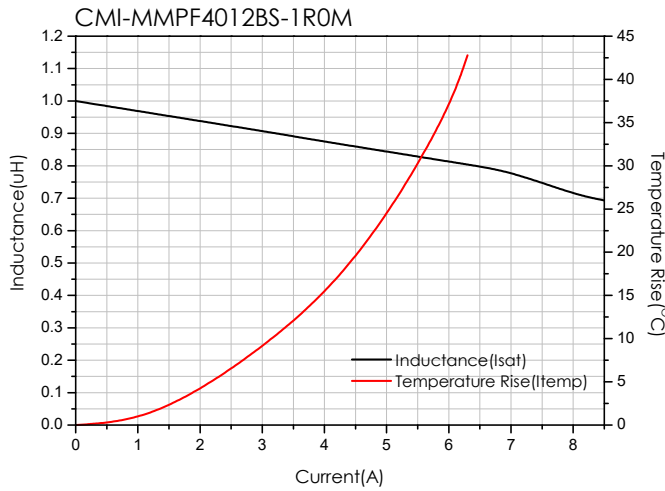
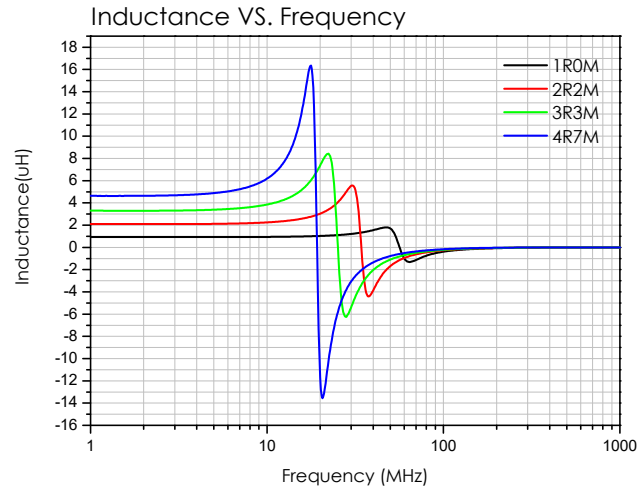
Note 1: Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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- All specifications are subject to change without notice.
- Update date: 2023.11.02

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Electrical characteristics

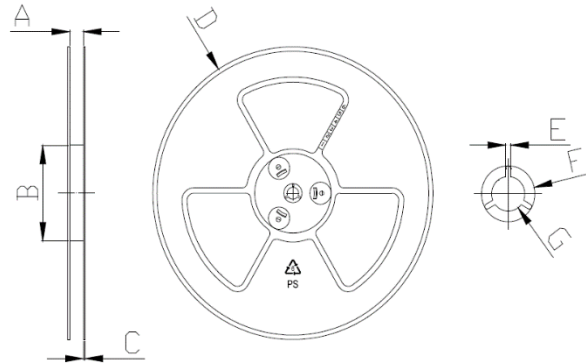


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Packaging

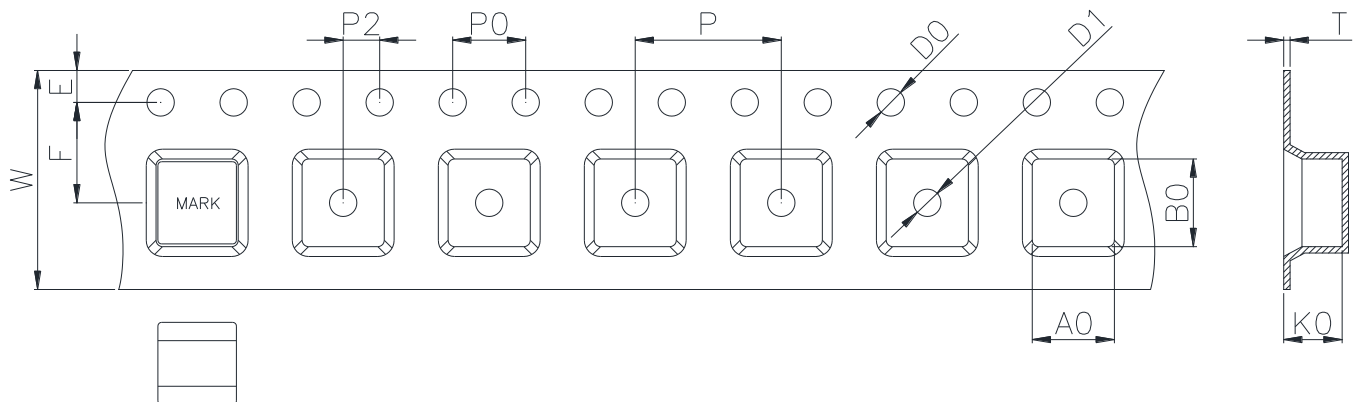
(1) Package quantity: 4,000 (pcs/reel)

(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	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
12.00	4.60	4.90	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	+0.10	+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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