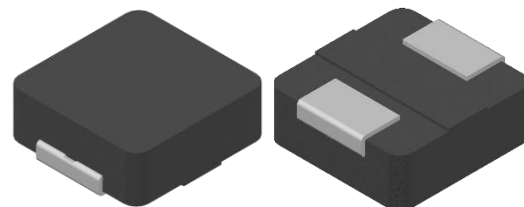


CMI-CMMPP5020HL-SERIES

Features

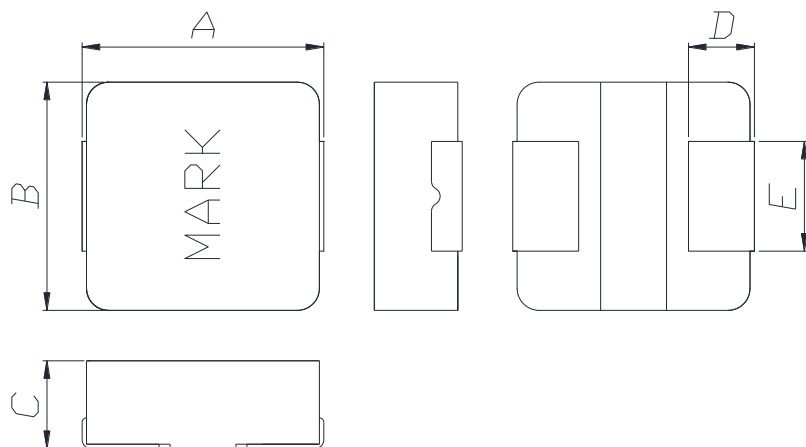
- ▶ Low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

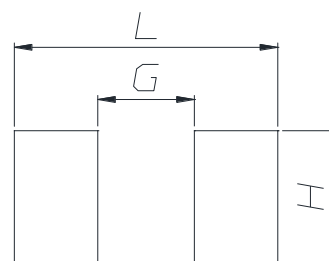
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

Dimension (Unit:mm)



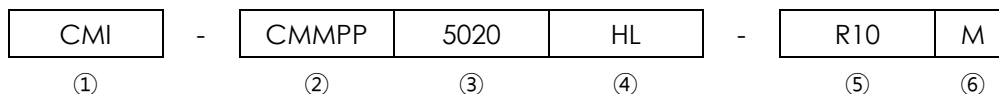
A	B	C	D	E
5.4 ±0.35	5.2 ±0.25	2.0 Max.	1.5 ±0.2	2.5 ±0.2

Land Pattern (Unit:mm)



L	G	H
6.0	2.2	3.0

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Pin type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.1uH)
- ⑥ Inductance tolerance (±20%)

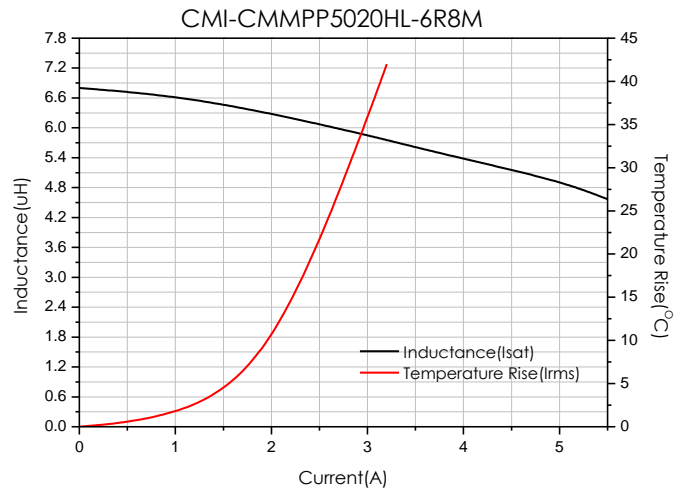
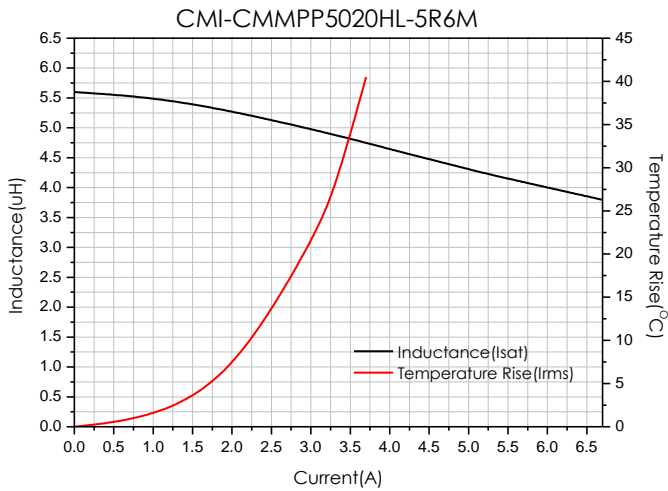
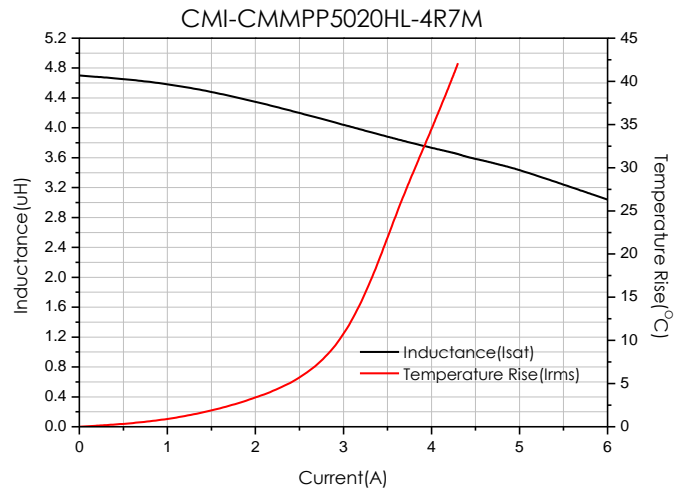
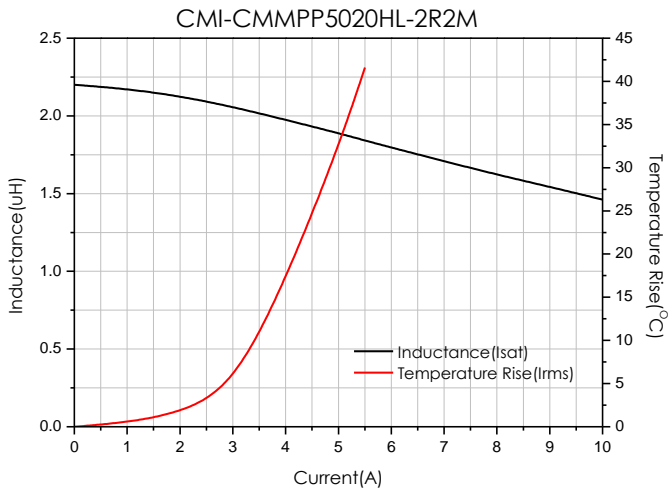
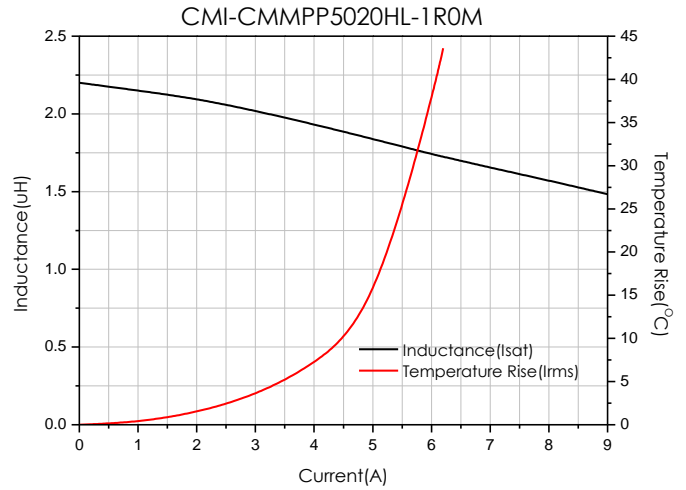
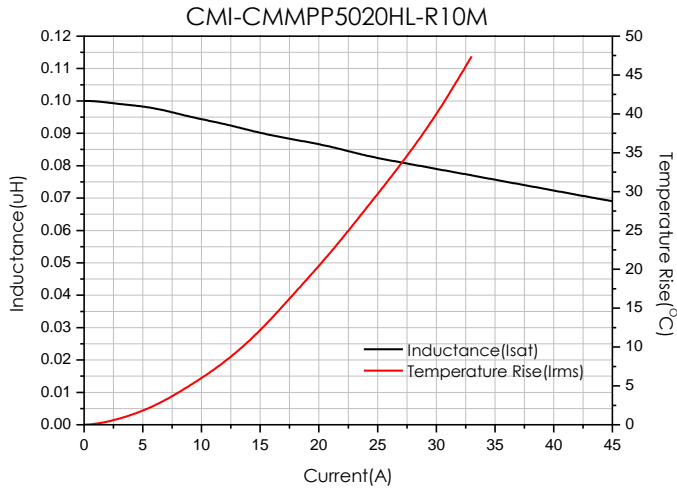
Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP5020HL-R10M	0.1	3.0(2.5)	30.0(35.0)	23.0(25.0)	1M
CMI-CMMPP5020HL-1R0M	1.0	20(18)	9.5(10.5)	6.0(6.5)	1M
CMI-CMMPP5020HL-2R2M	2.2	34.5(29)	6.3(7.0)	4.5(5.0)	1M
CMI-CMMPP5020HL-4R7M	4.7	66(55)	4.5(5.0)	3.5(4.0)	1M
CMI-CMMPP5020HL-5R6M	5.6	90(75)	4.2(4.7)	3.0(3.5)	1M
CMI-CMMPP5020HL-6R8M	6.8	132(110)	4.0(4.5)	2.7(2.9)	1M

- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- Irms: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range(including self temperature) : -40°C ~ +165 °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.

Electrical characteristics

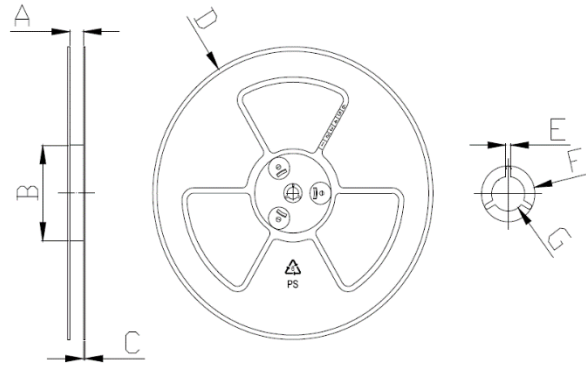


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Packaging

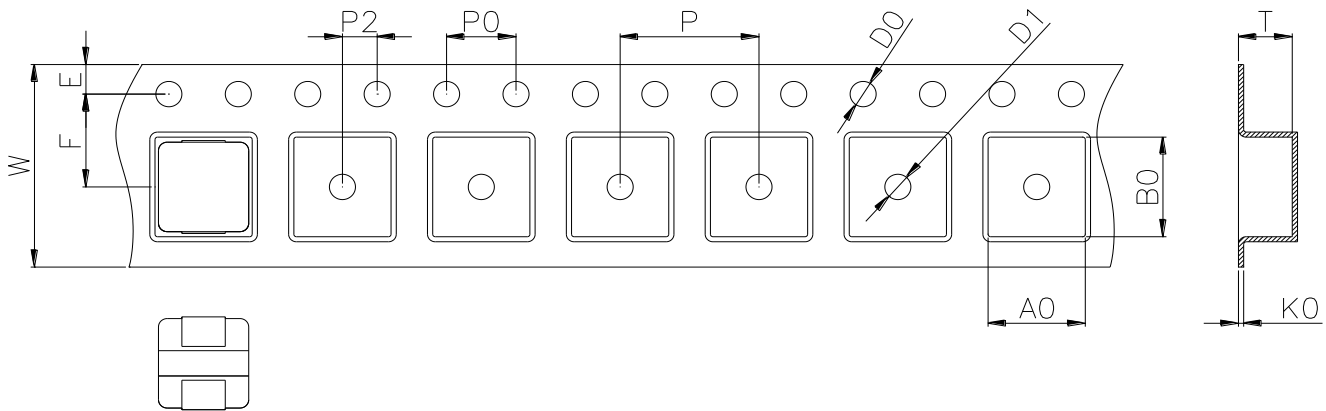
(1) Package quantity : 3,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
12.50	100.0	2.00	330.0	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	5.50	5.70	2.20	1.75	5.50	8.00	4.00	2.00	1.50	0.30
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.00	-0.00	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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