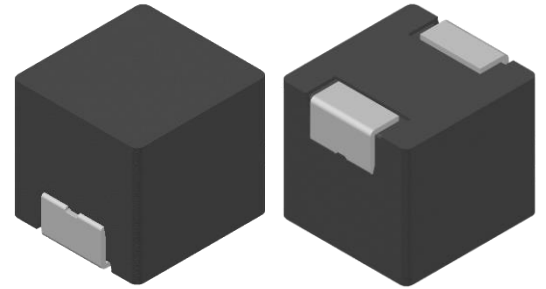


CMI-CMMPP4040HL-SERIES

Features

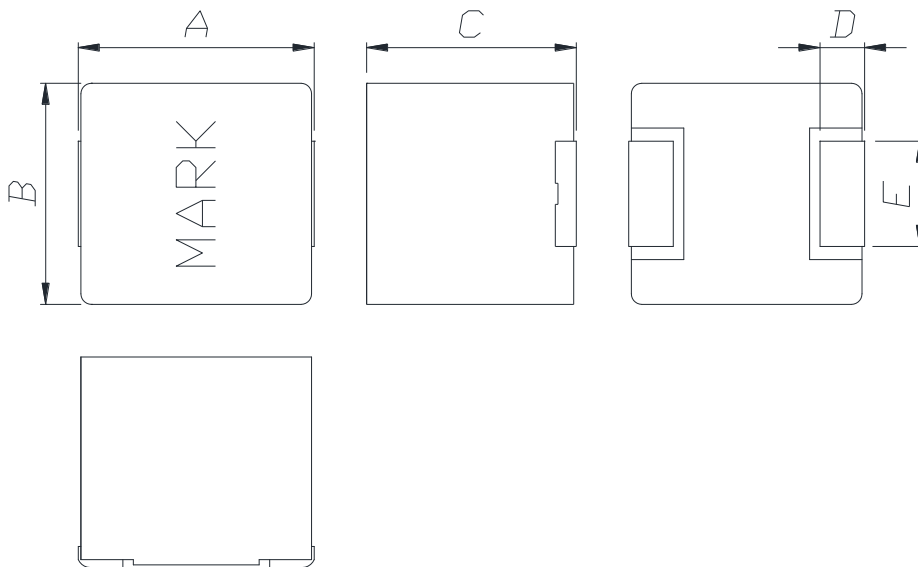
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

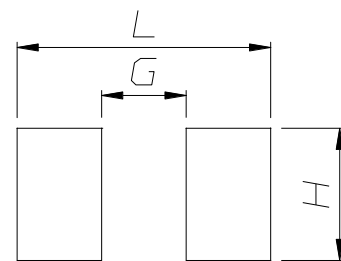
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

Dimension (Unit:mm)



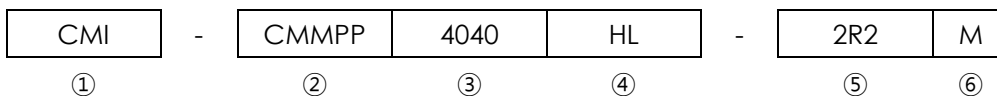
A	B	C	D	E
4.4 ±0.35	4.2 ±0.25	4.0 Max.	0.8 ±0.2	2.0 ±0.2

Land Pattern (Unit:mm)



L	G	H
4.8	1.6	2.5

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 (2.2uH)
- ⑥ Inductance tolerance ($\pm 20\%$)

Specifications

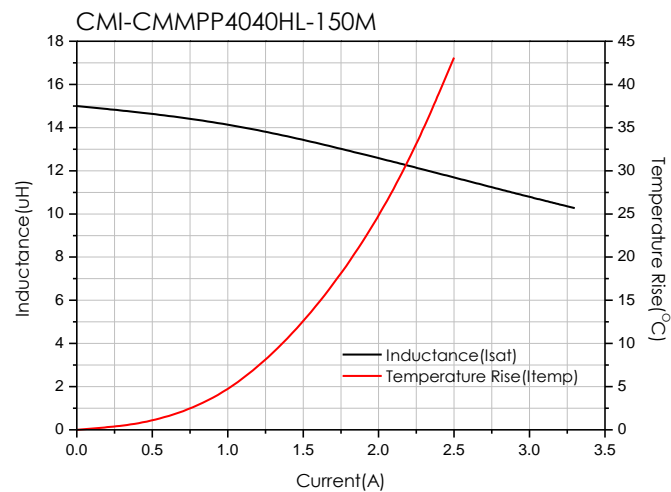
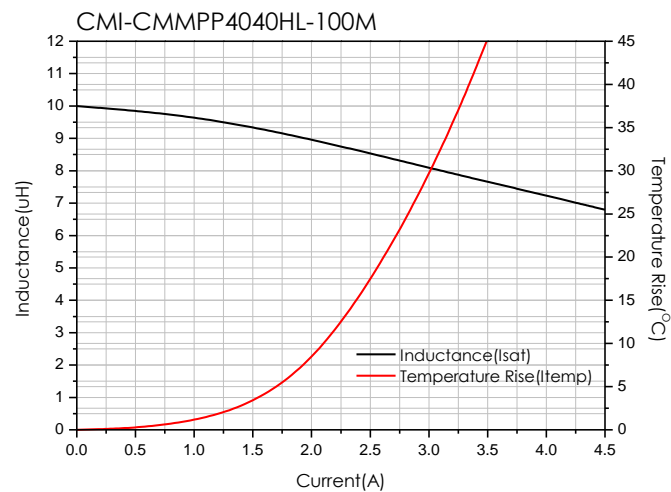
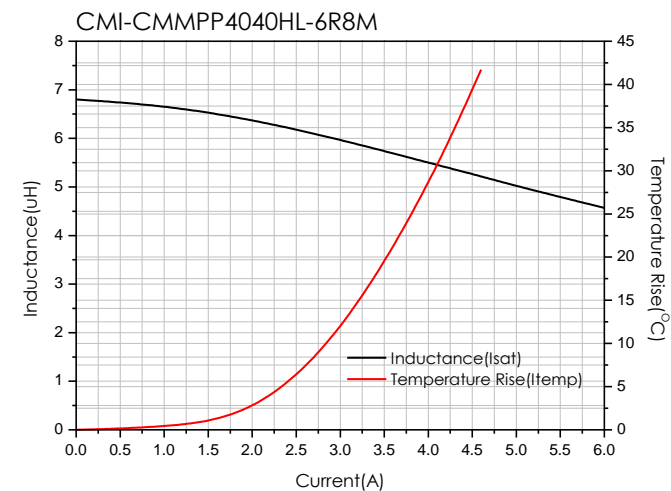
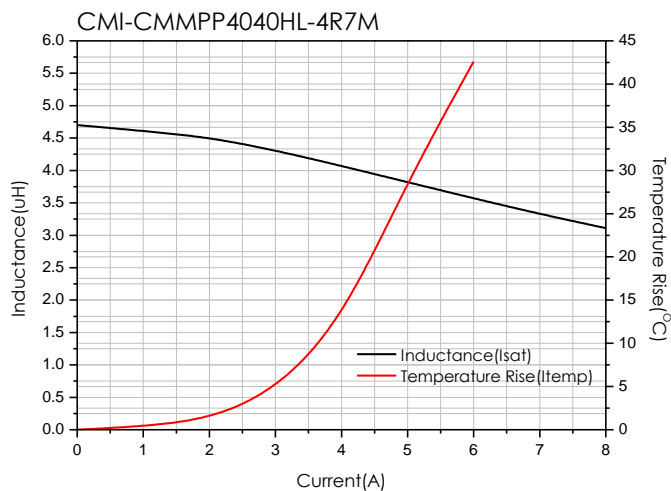
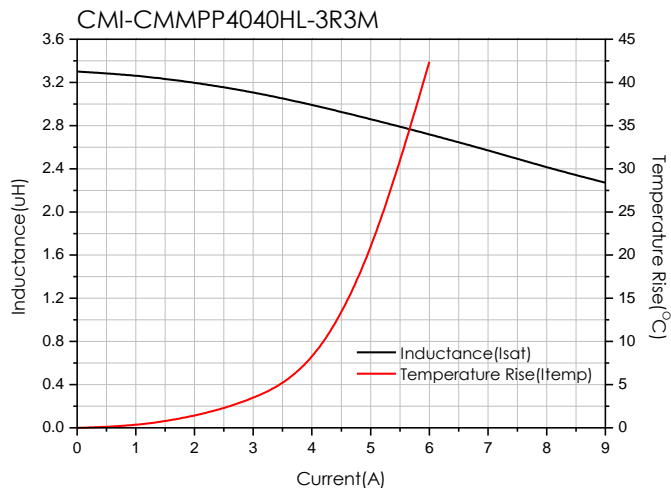
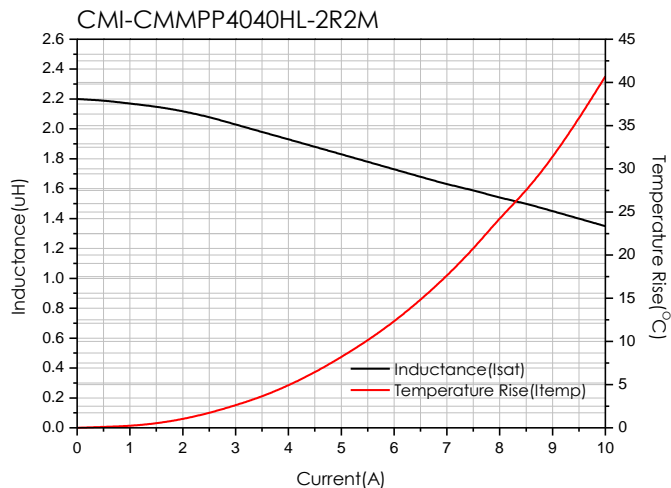
Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP4040HL-2R2M	2.2	25.2(21)	6.5(7.5)	6.5(7.0)	1M
CMI-CMMPP4040HL-3R3M	3.3	42(35)	5.8(6.3)	5.1(5.5)	1M
CMI-CMMPP4040HL-4R7M	4.7	45(39)	5.5(6.0)	4.6(5.1)	1M
CMI-CMMPP4040HL-6R8M	6.8	72(60)	3.8(4.2)	3.6(4.0)	1M
CMI-CMMPP4040HL-100M	10	168(140)	2.8(3.1)	2.7(2.9)	1M
CMI-CMMPP4040HL-150M	15	228(190)	2.4(2.6)	2.4(2.6)	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.

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 ▪ All specifications are subject to change without notice.
 ▪ Update date : 2022.07.18

Electrical characteristics

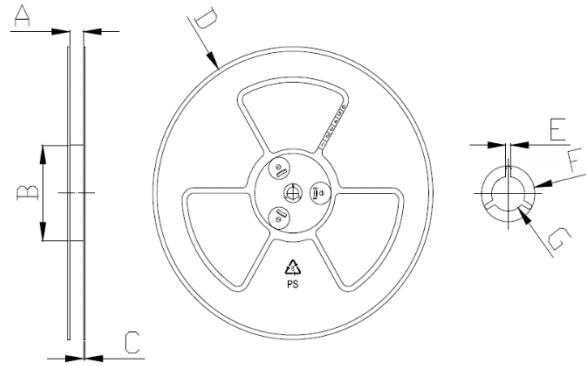


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Packaging

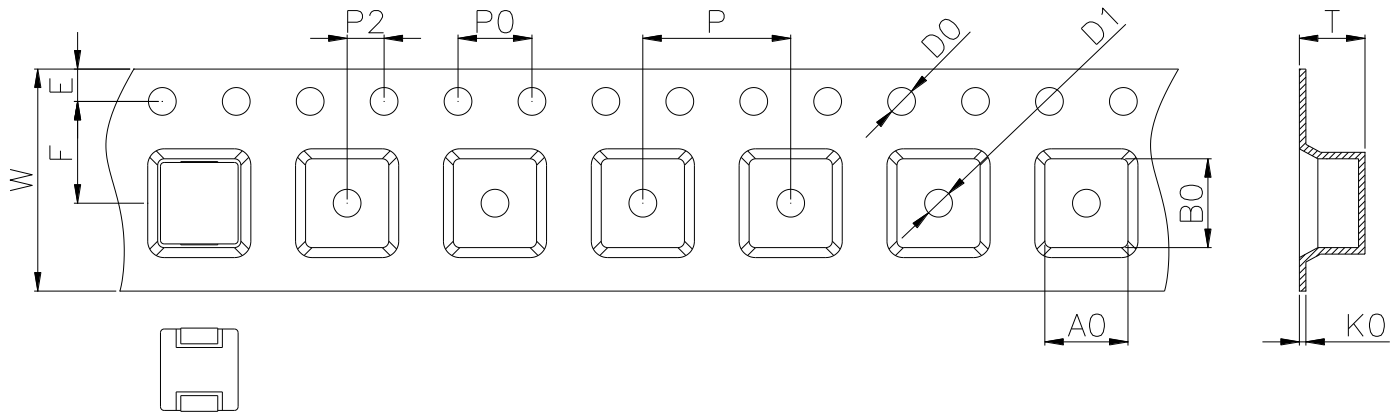
(1) Package quantity : 1,500 (pcs/reel)

(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	4.50	4.90	4.00	1.75	5.50	8.00	4.00	2.00	1.50	0.40
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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