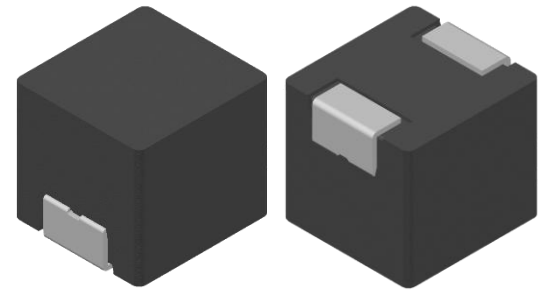


CMI-CMMPP4040HL-SERIES

Features

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

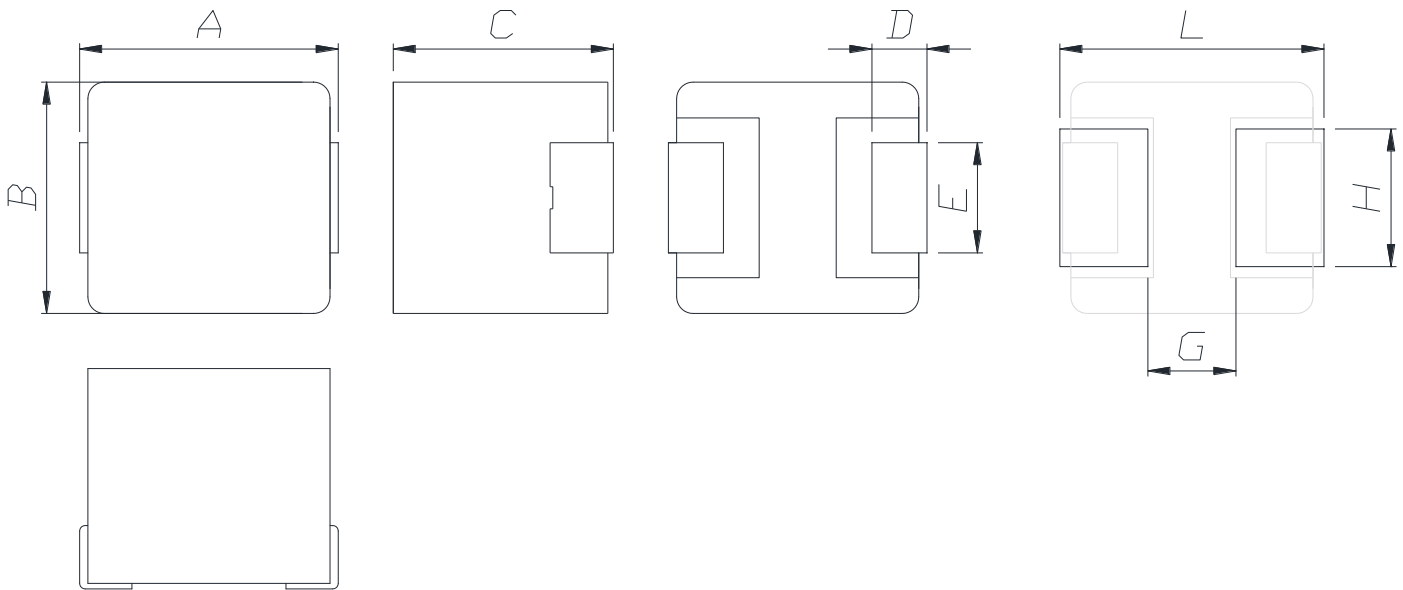


Applications

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

Dimension (Unit:mm)

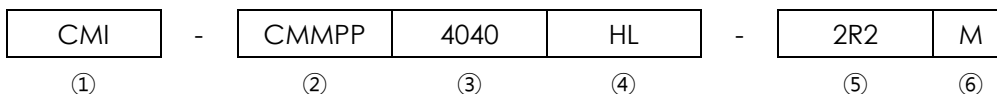
Land Pattern (Unit:mm)



A	B	C	D	E
4.4 ±0.35	4.2 ±0.25	4.0 Max.	1.0 ±0.2	2.0 ±0.2

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 (±20%)

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP4040HL-2R2M	2.2	25.2(21)	6.50(7.50)	6.50(7.00)	1M
CMI-CMMPP4040HL-3R3M	3.3	42(35)	5.80(6.30)	5.10(5.50)	1M
CMI-CMMPP4040HL-4R7M	4.7	45(39)	5.50(6.00)	4.60(5.10)	1M
CMI-CMMPP4040HL-6R8M	6.8	72(60)	3.80(4.20)	3.60(4.00)	1M
CMI-CMMPP4040HL-100M	10	168(140)	2.80(3.10)	2.70(2.90)	1M
CMI-CMMPP4040HL-150M	15	228(190)	2.40(2.60)	2.40(2.60)	1M
CMI-CMMPP4040HL-220M	22	252(215)	2.30(2.50)	2.20(2.40)	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

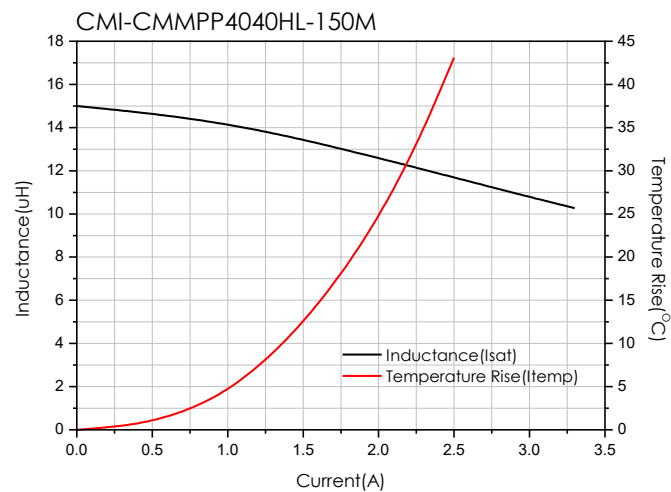
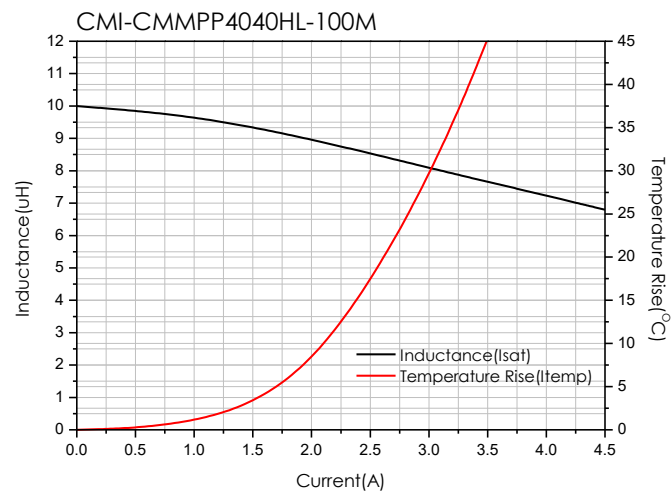
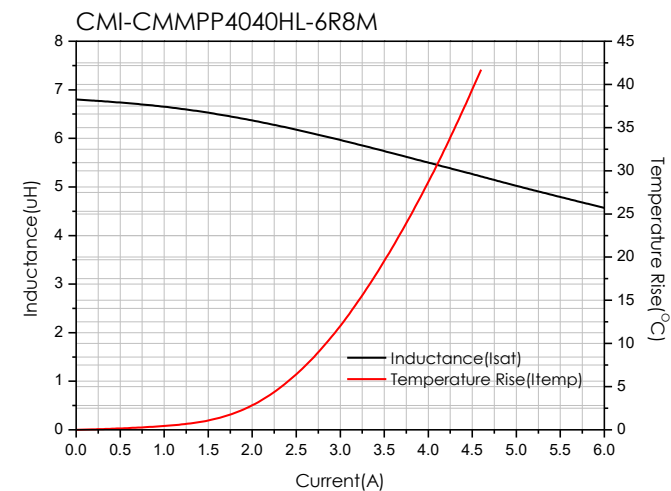
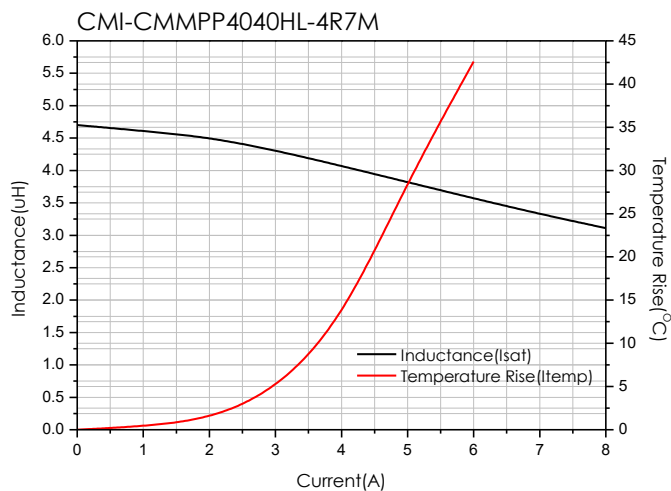
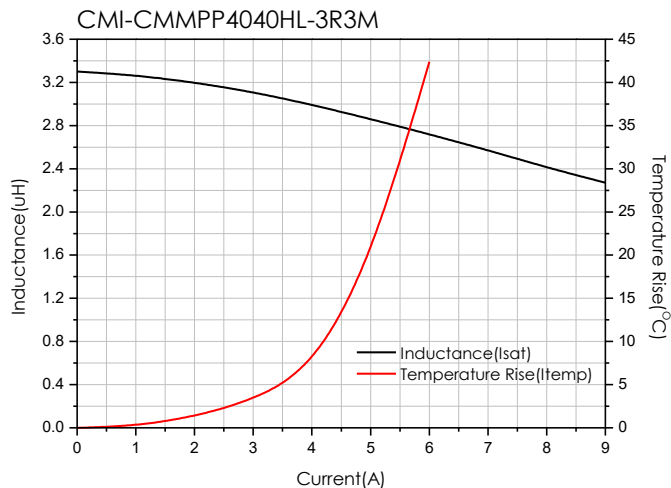
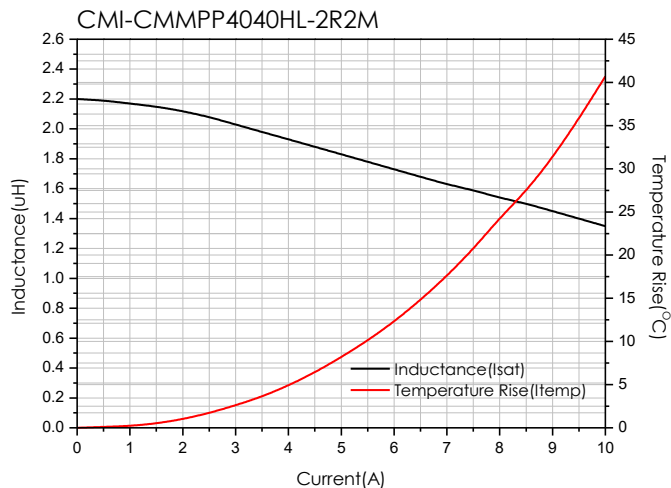
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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

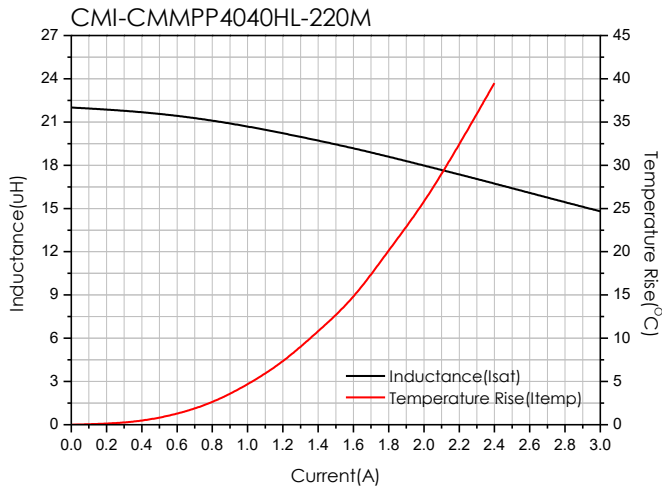
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- Update date : 2026.02.24 (Rev.0.2)

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Electrical characteristics



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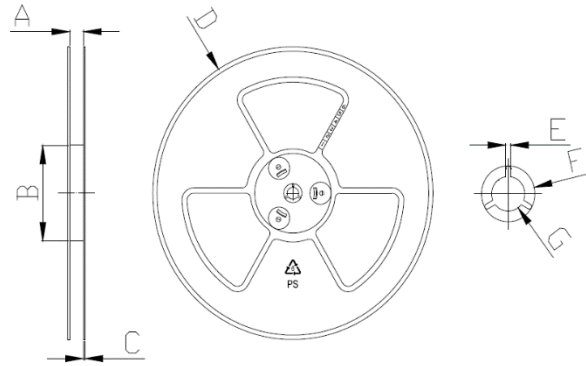


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Packaging

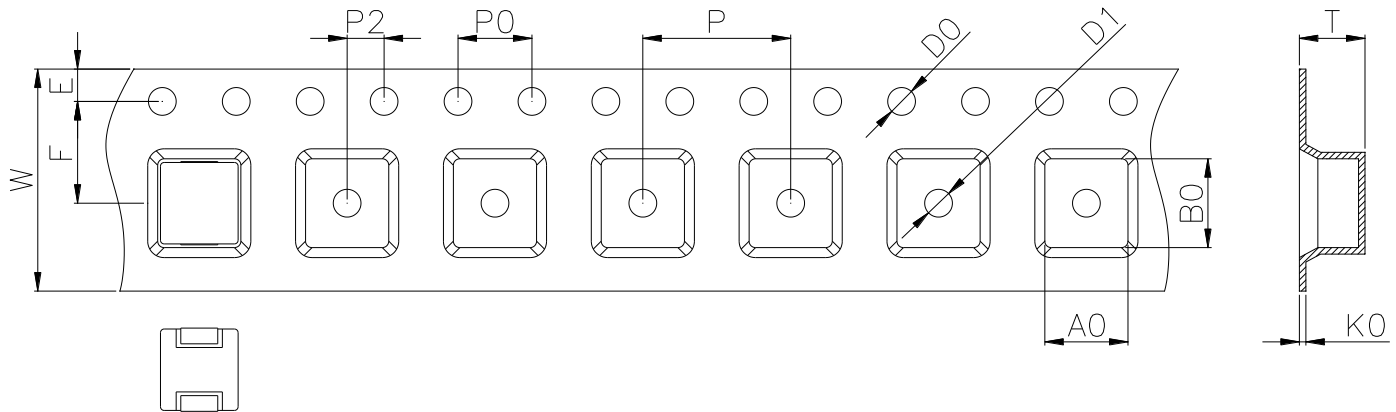
(1) Package quantity : 1,500 (pcs/reel)

(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	4.60	5.00	4.20	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	-0.00	-0.00	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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