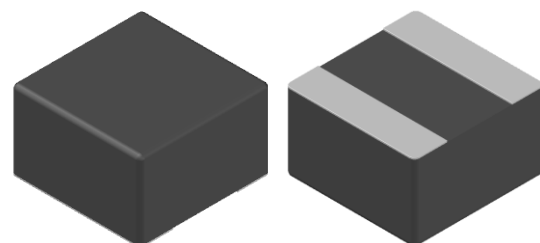


CMI-CMMP8050HL-SERIES

Features

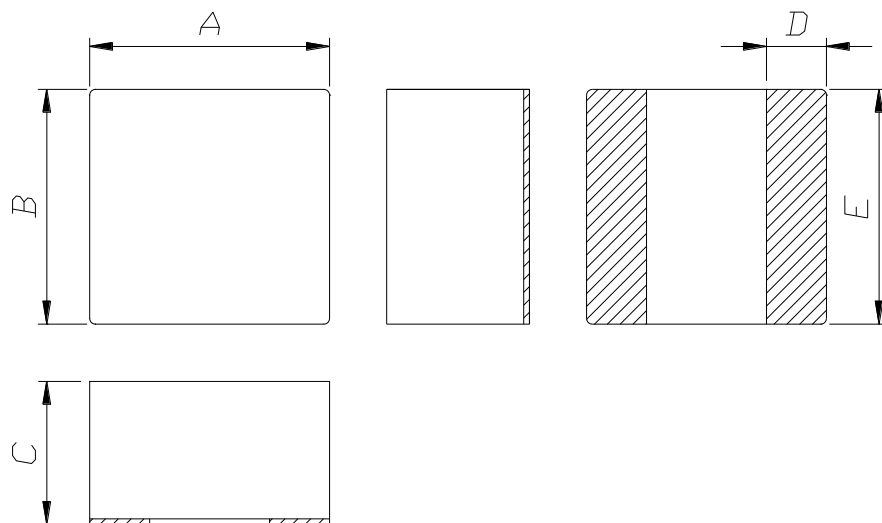
- ▶ Compact design.
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

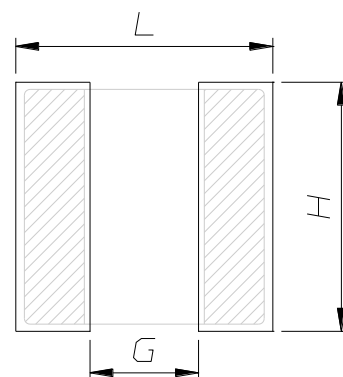
- ▶ For DC/DC converter, AV equipment digital consumer electronics

Dimension (Unit:mm)



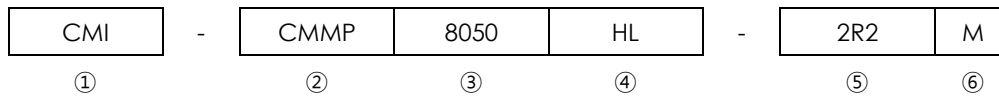
A	B	C	D	E
8.4 ±0.3	8.2 ±0.3	5.0 Max.	2.1 ±0.3	8.2 ±0.3

Land Pattern (Unit:mm)



L	G	H
9.0	3.8	8.7

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (2.2uH)
- 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-CMMP8050HL-2R2M	2.2	10.2(8.5)	18.0(20.0)	18.0(20.0)	1M
CMI-CMMP8050HL-4R7M	4.7	21(17.5)	13.0(14.0)	14.0(15.0)	1M
CMI-CMMP8050HL-100M	10	54(45)	8.50(9.50)	8.00(9.00)	1M
CMI-CMMP8050HL-220M	22	96(80)	6.00(7.00)	5.00(6.00)	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

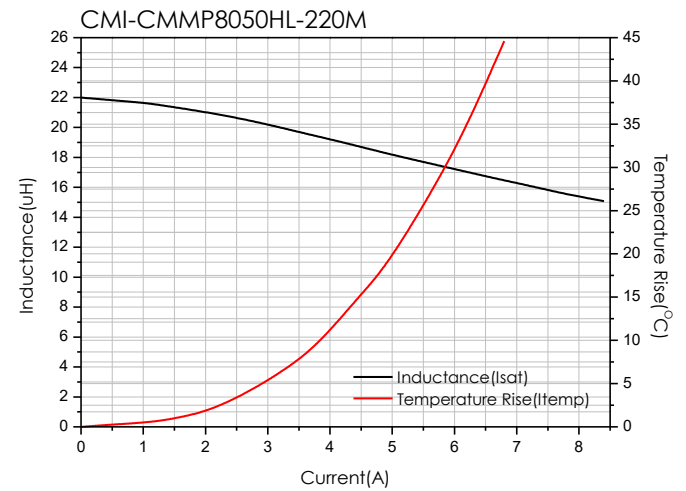
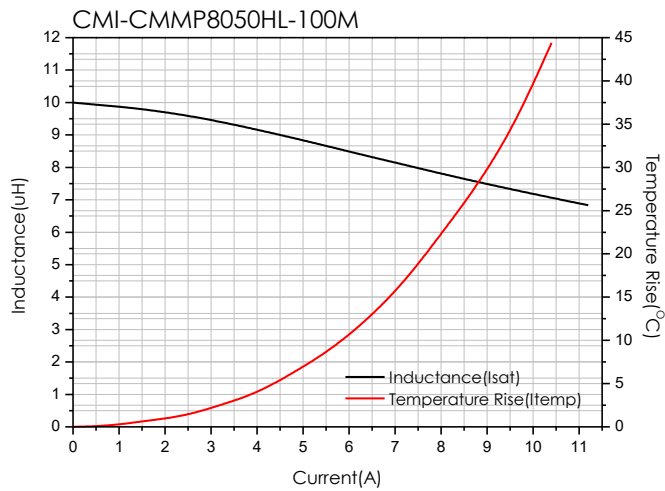
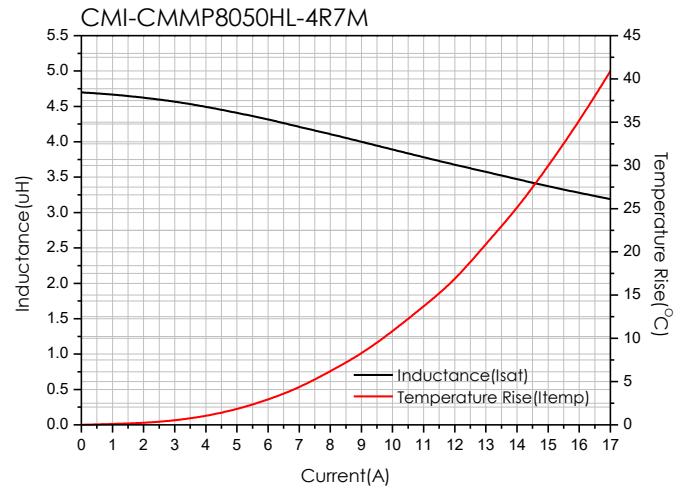
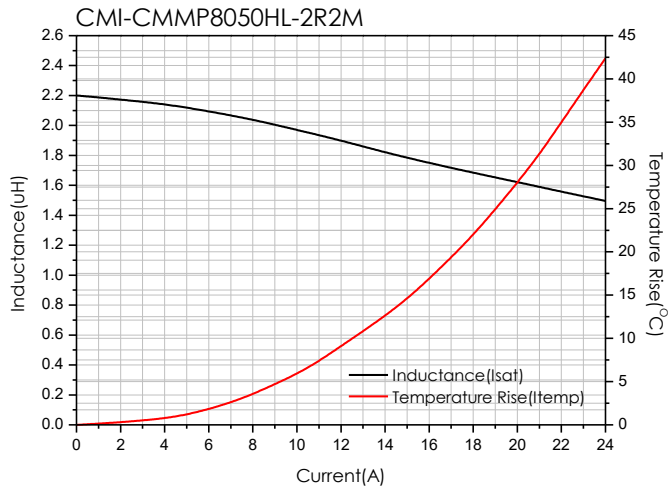
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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

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- Update date : 2025.10.13 (Rev.0.0)

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Electrical characteristics

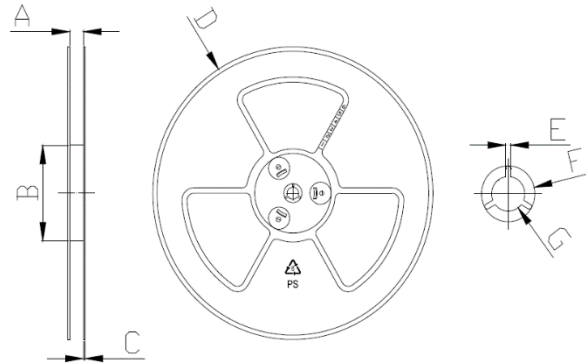


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Packaging

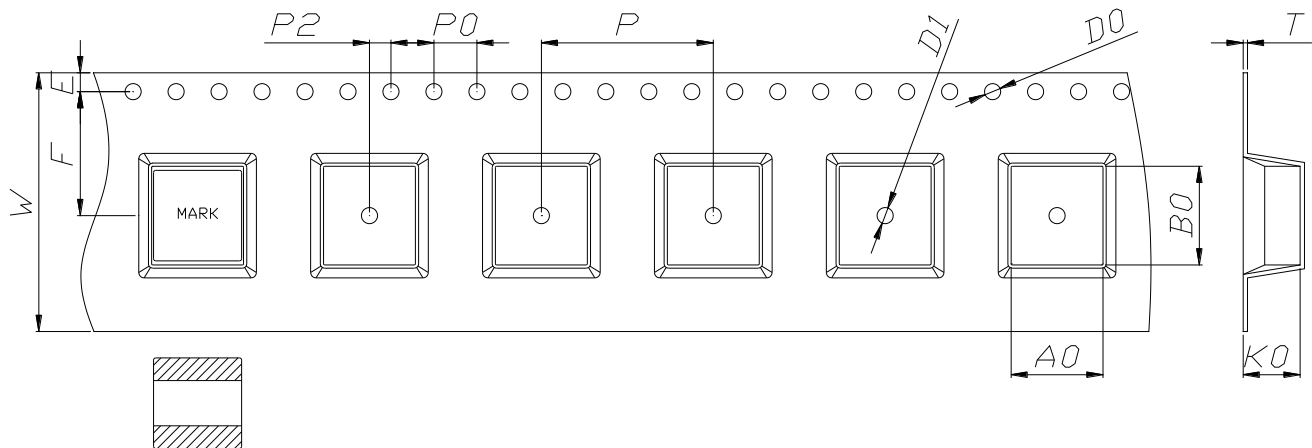
(1) Package quantity : 700 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
24.50	100.0	2.30	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.20	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.20	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
24.00	8.55	9.15	5.30	1.75	11.50	16.00	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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