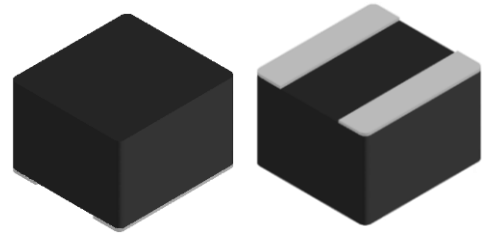


CMI-CMMP4030HL-SERIES

Features

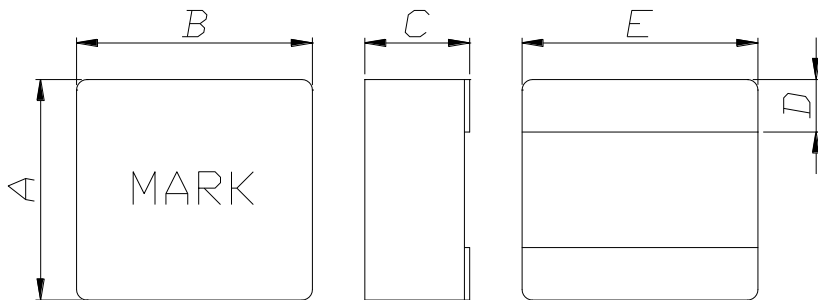
- ▶ Small size, high current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

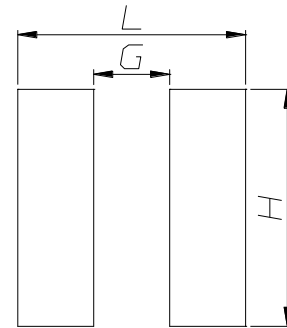
- ▶ Car navigation, Car stereo and Car accessories, ADAS ECU, In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

Dimension (Unit:mm)



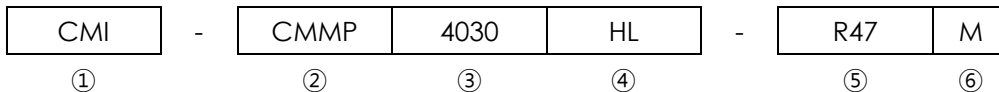
A	B	C	D	E
4.5±0.3	4.2±0.3	3.0 Max.	1.0±0.3	4.2±0.3

Land Pattern (Unit:mm)



L	G	H
4.8	1.6	5.0

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Magic Material Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.47uH)
- ⑥ Inductance tolerance (±20%)

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Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max(Typ)	IDC1(A) Max(Typ)	IDC2(A) Max(Typ)	Test Frequency (Hz)
CMI-CMMP4030HL-R47M	0.47	10.0(8.5)	15.00(17.00)	8.40(9.40)	1M
CMI-CMMP4030HL-1R0M	1.0	16.8(14.0)	10.50(12.50)	7.00(8.00)	1M
CMI-CMMP4030HL-1R8M	1.8	24.0(20.0)	8.00(9.00)	6.40(6.90)	1M
CMI-CMMP4030HL-2R2M	2.2	30.0(25.0)	7.10(8.10)	5.30(5.80)	1M
CMI-CMMP4030HL-3R3M	3.3	42.0(35.0)	6.60(7.30)	4.90(5.40)	1M
CMI-CMMP4030HL-4R7M	4.7	60.0(50.0)	4.20(4.70)	4.10(4.50)	1M
CMI-CMMP4030HL-6R8M	6.8	78.0(65.0)	4.10(4.60)	3.80(4.20)	1M
CMI-CMMP4030HL-100M	10	138(115)	4.00(4.40)	2.80(3.10)	1M
CMI-CMMP4030HL-220M	22	252(210)	2.90(3.30)	1.80(2.00)	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

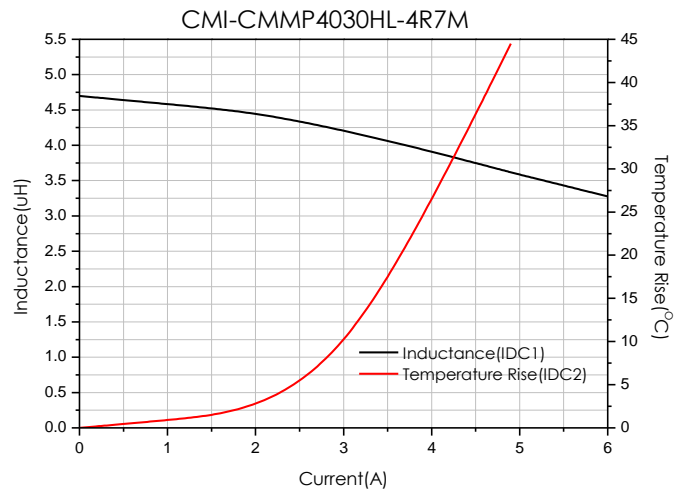
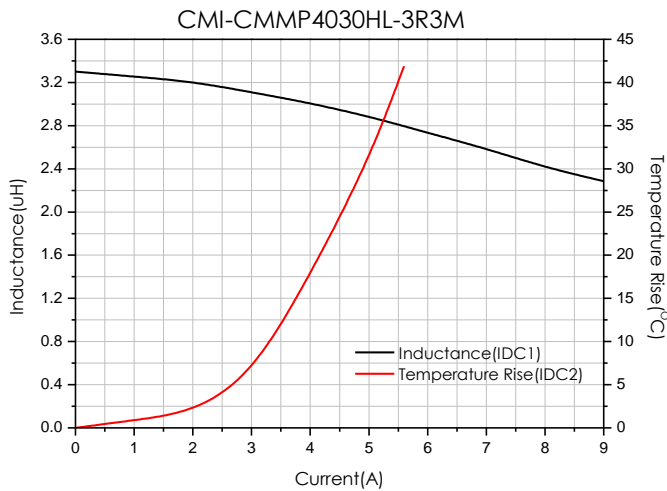
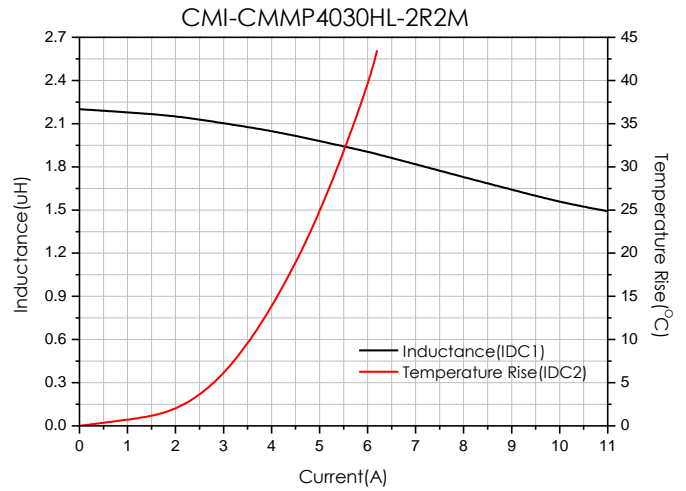
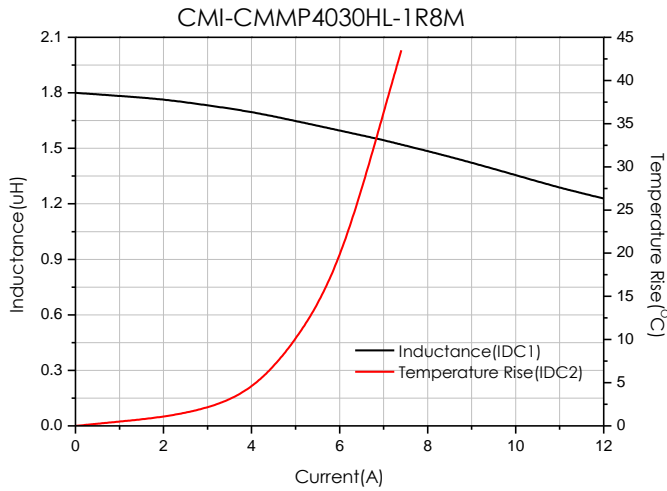
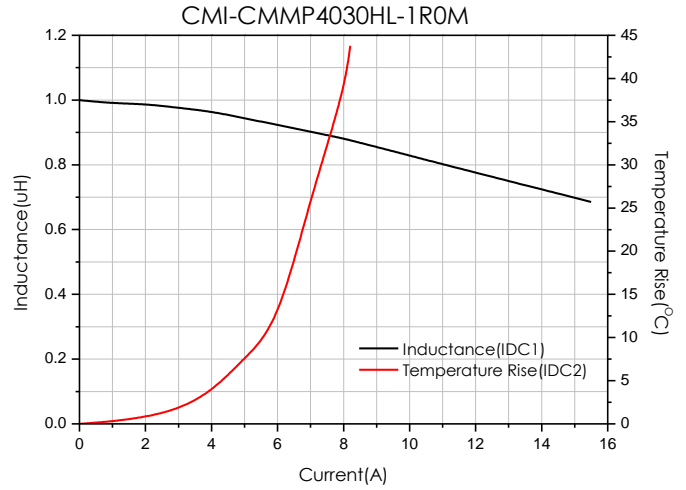
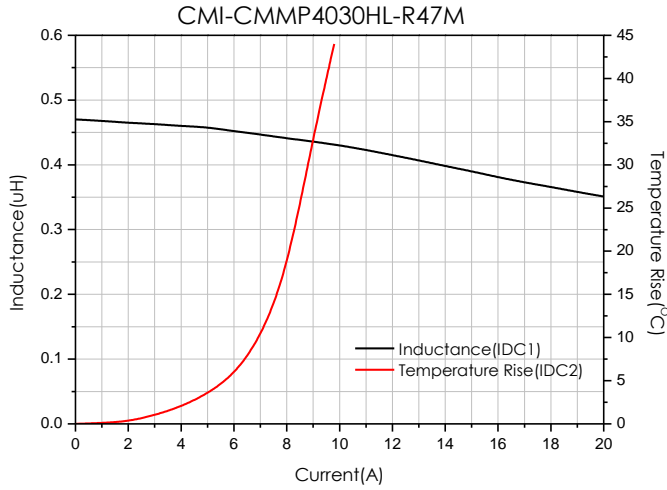
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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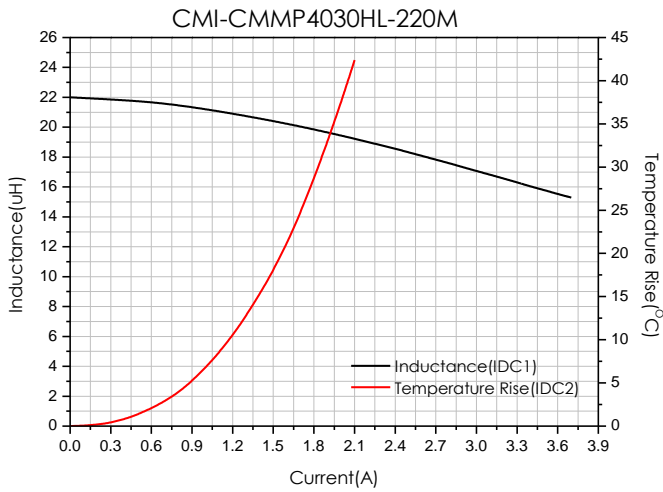
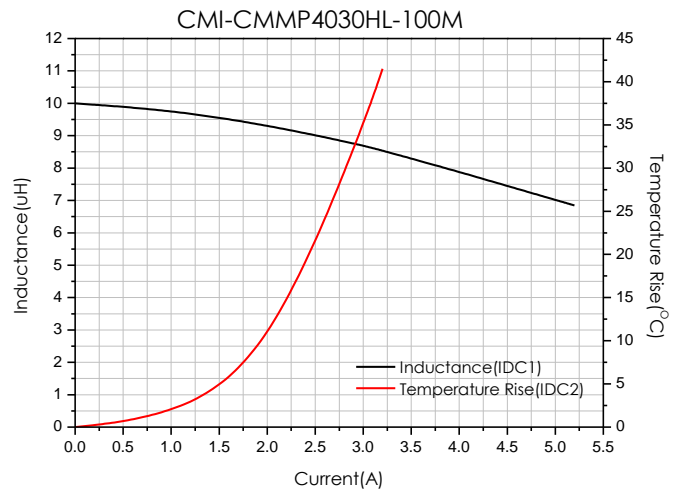
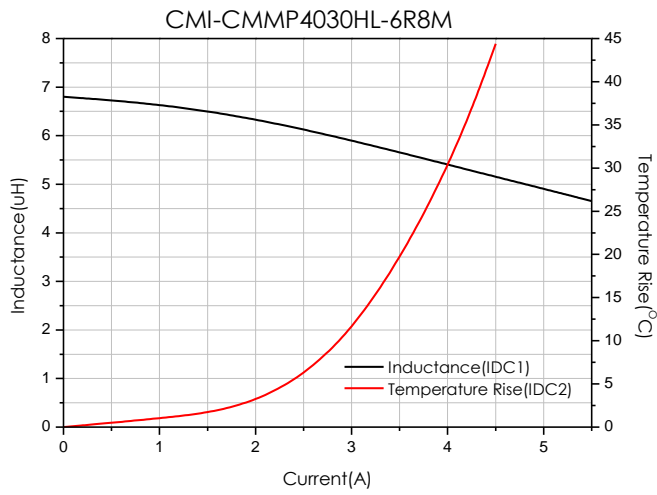
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Electrical characteristics



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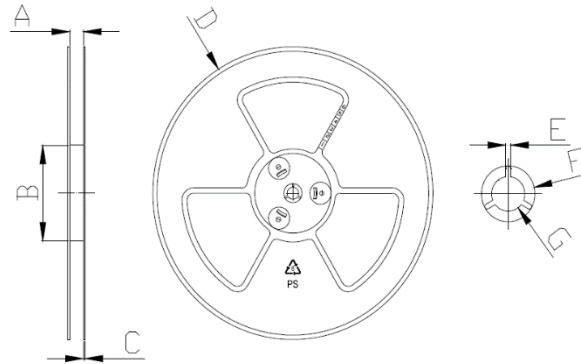


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Packaging

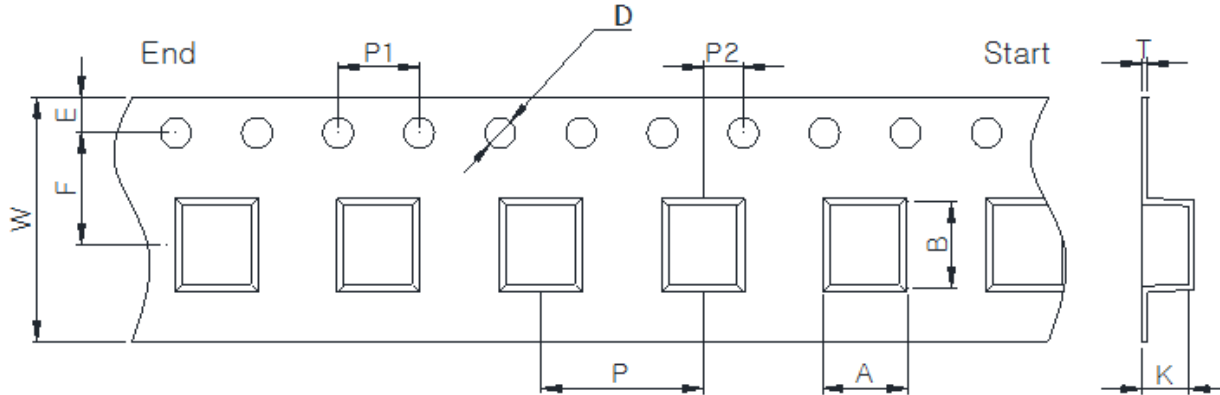
(1) Package quantity : 2,000 (pcs/reel)

(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	A	B	K	E	F	P	P1	P2	D	T
12.00	4.50	4.80	3.20	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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