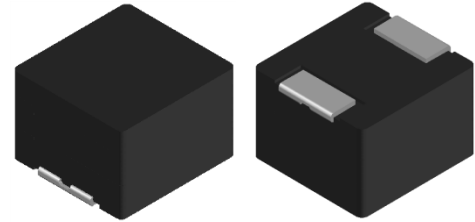




CMI-MMPP4030HL-SERIES

Features

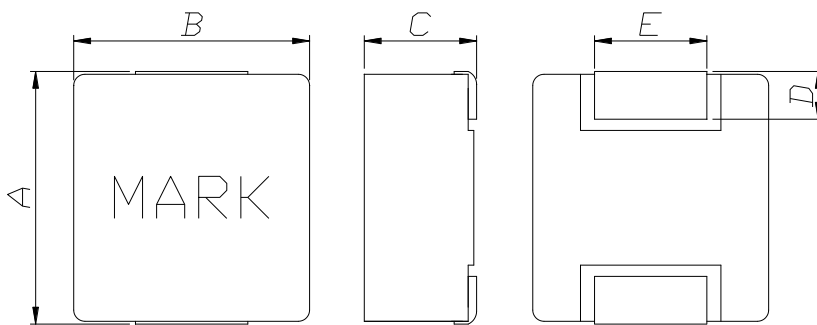
- ▶ Small size, high current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.



Applications

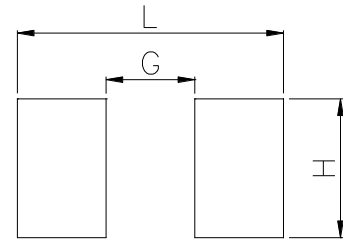
- ▶ For DC/DC converter, AV equipment digital consumer electronics

Dimension (Unit:mm)



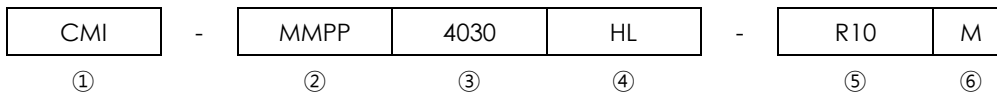
A	B	C	D	E
4.4±0.35	4.2±0.25	3.0 Max	0.8±0.2	2.0±0.2

Land Pattern (Unit:mm)



L	G	H
4.8	1.6	2.5

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Magic Material Pin type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.1uH)
- 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-MMPP4030HL-R10M	0.10	5.4(4.5)	30.00(32.00)	14.00(15.00)	1M
CMI-MMPP4030HL-R20M	0.20	7.8(6.5)	22.00(26.00)	10.00(11.00)	1M
CMI-MMPP4030HL-R33M	0.33	9.0(7.5)	14.50(16.50)	9.50(10.50)	1M
CMI-MMPP4030HL-R47M	0.47	10.2(8.5)	12.50(13.50)	9.00(10.00)	1M
CMI-MMPP4030HL-R56M	0.56	10.8(9.0)	12.00(13.00)	8.50(9.50)	1M
CMI-MMPP4030HL-R68M	0.68	12.0(10.0)	11.50(12.50)	8.00(9.00)	1M
CMI-MMPP4030HL-1R0M	1.0	18.0(15.0)	10.50(11.50)	7.00(7.50)	1M
CMI-MMPP4030HL-1R5M	1.5	24.0(20.0)	7.00(8.00)	6.50(7.00)	1M
CMI-MMPP4030HL-1R8M	1.8	28.8(24.0)	6.50(7.30)	5.80(6.50)	1M
CMI-MMPP4030HL-2R2M	2.2	30.0(25.0)	6.30(7.00)	5.70(6.40)	1M
CMI-MMPP4030HL-3R3M	3.3	50.0(42.0)	6.10(6.80)	4.00(4.60)	1M
CMI-MMPP4030HL-4R7M	4.7	66.0(55.0)	4.50(5.00)	3.50(3.70)	1M
CMI-MMPP4030HL-6R8M	6.8	84.0(70.0)	3.70(4.00)	2.70(3.00)	1M
CMI-MMPP4030HL-100M	10	154(128)	3.30(3.70)	2.20(2.50)	1M

- IDC1: When based on the inductance change rate (approximately 30% below in the initial value)
- IDC2: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range(including self temperature) : -40°C ~ +125 °C

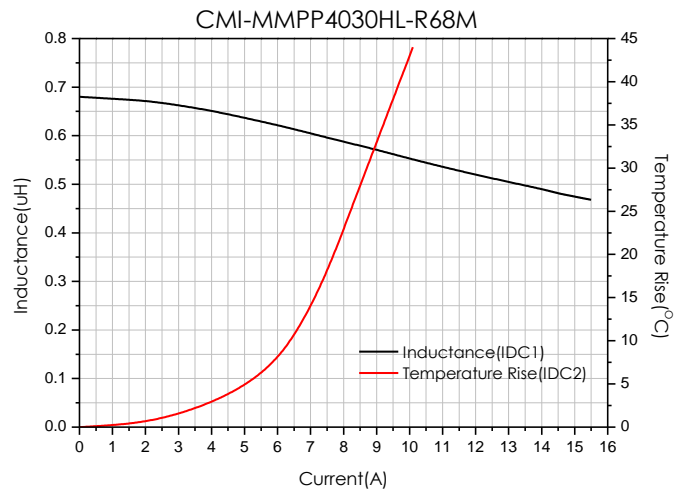
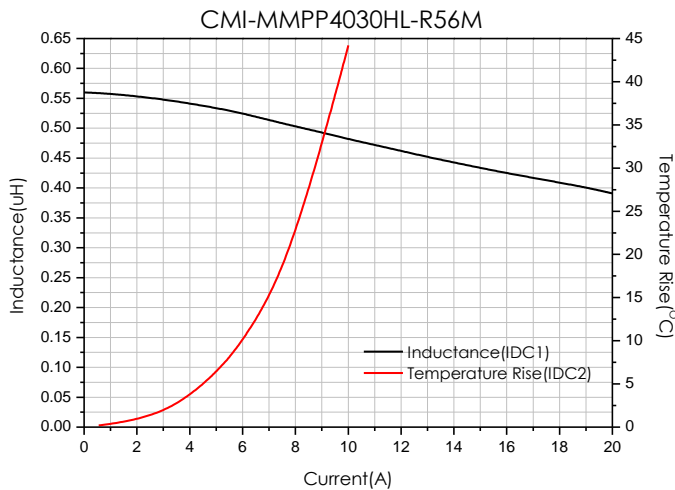
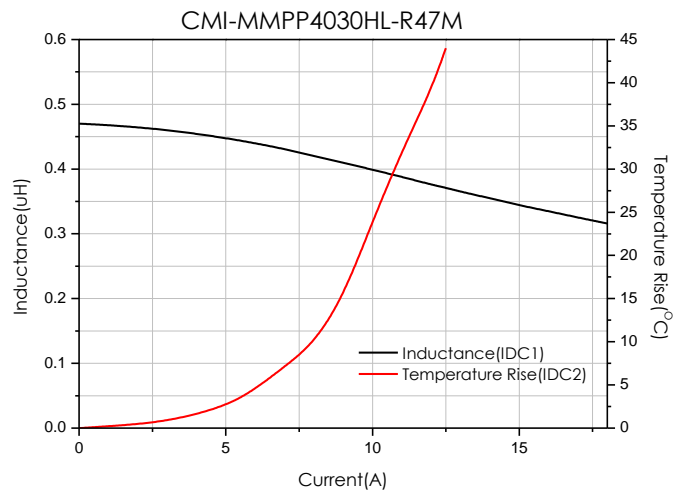
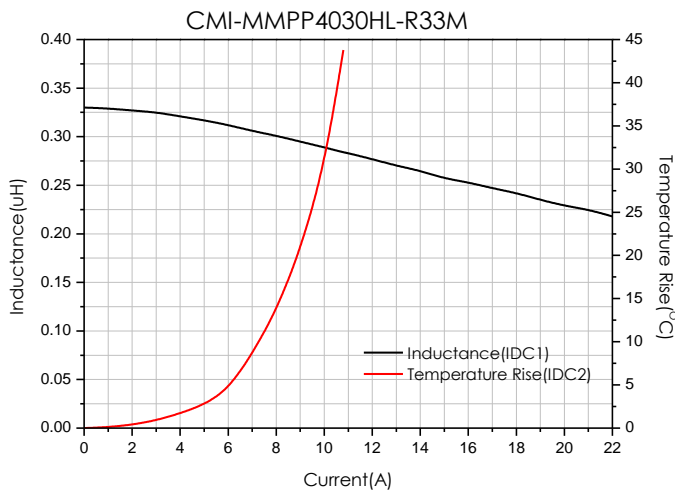
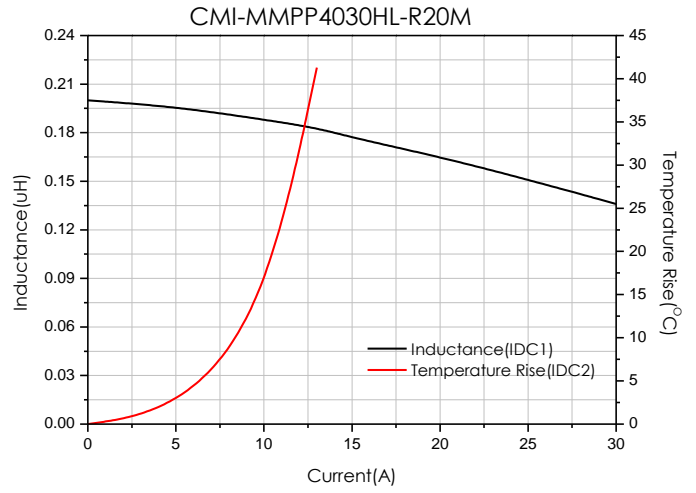
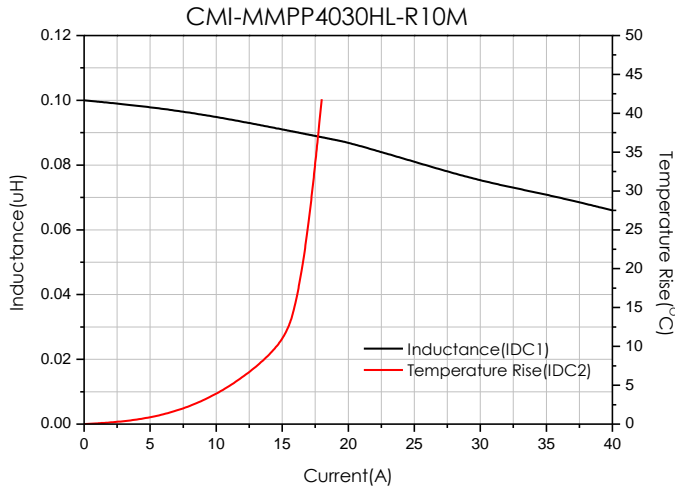
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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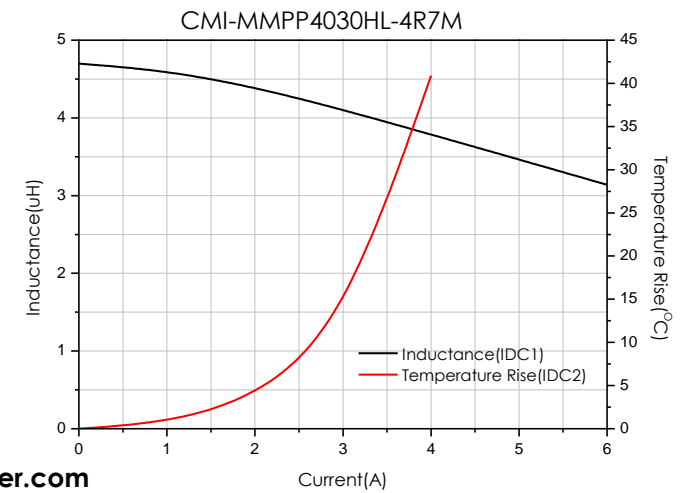
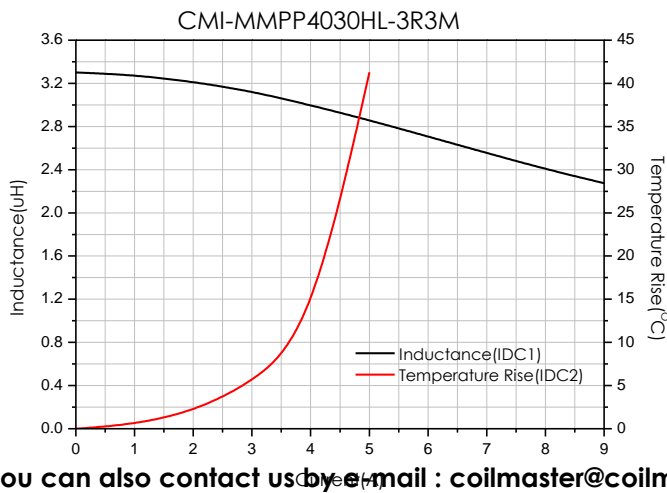
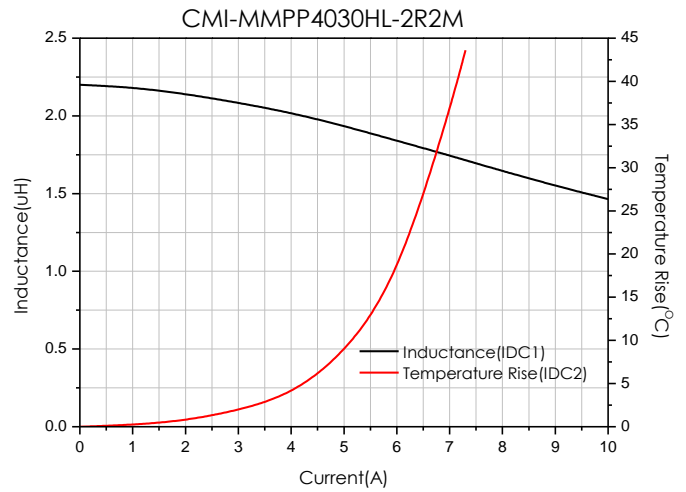
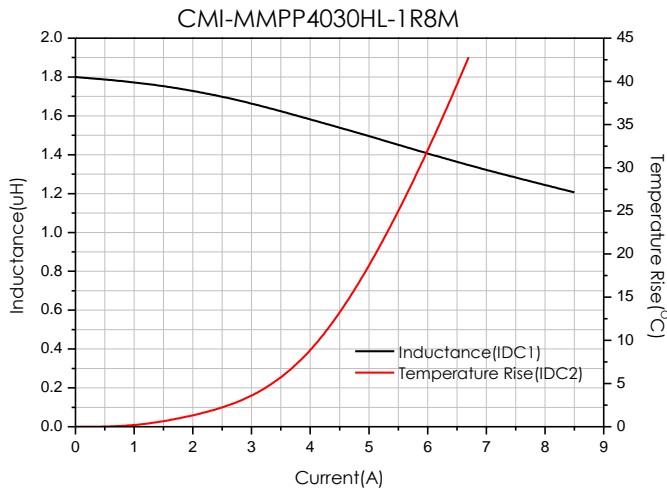
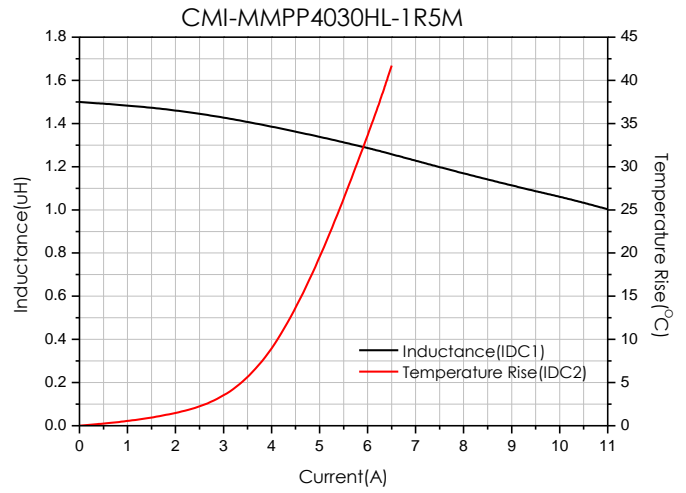
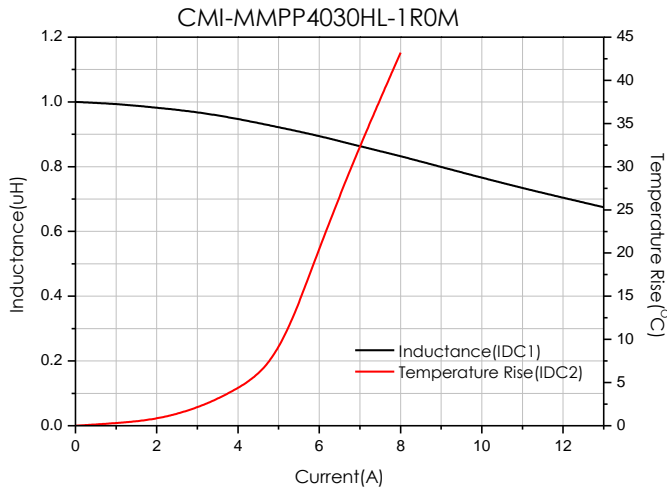
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Electrical characteristics

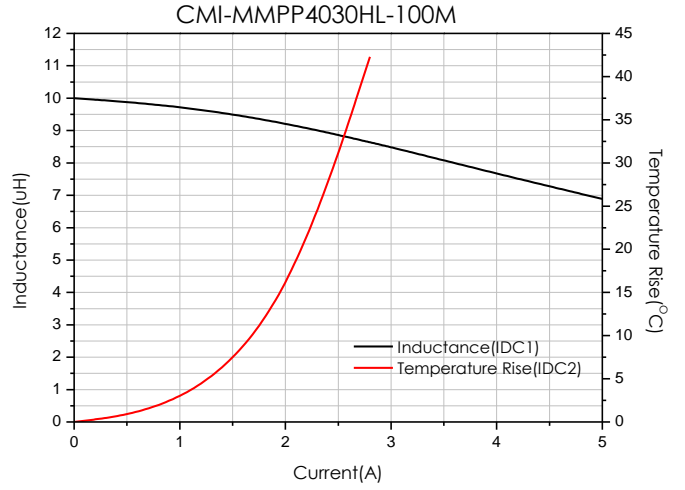
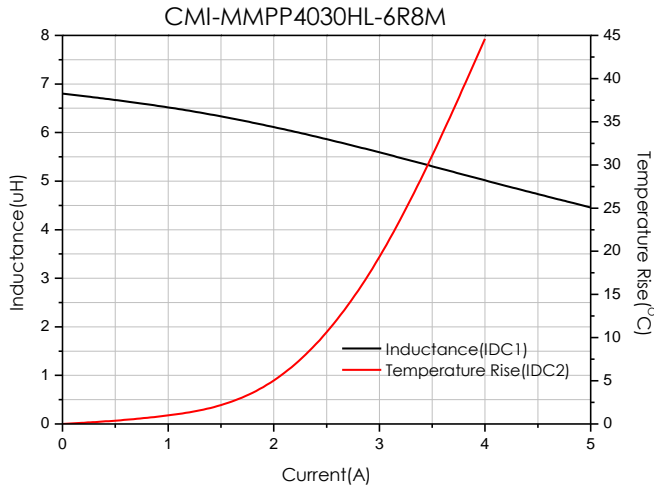


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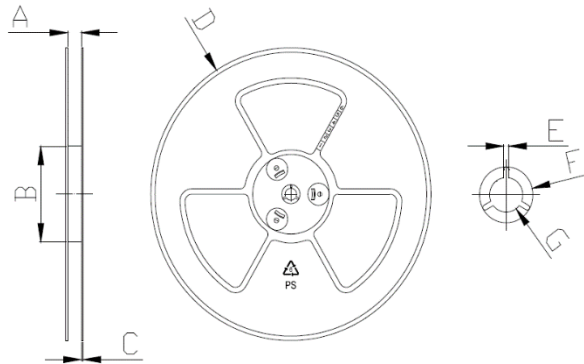


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Packaging

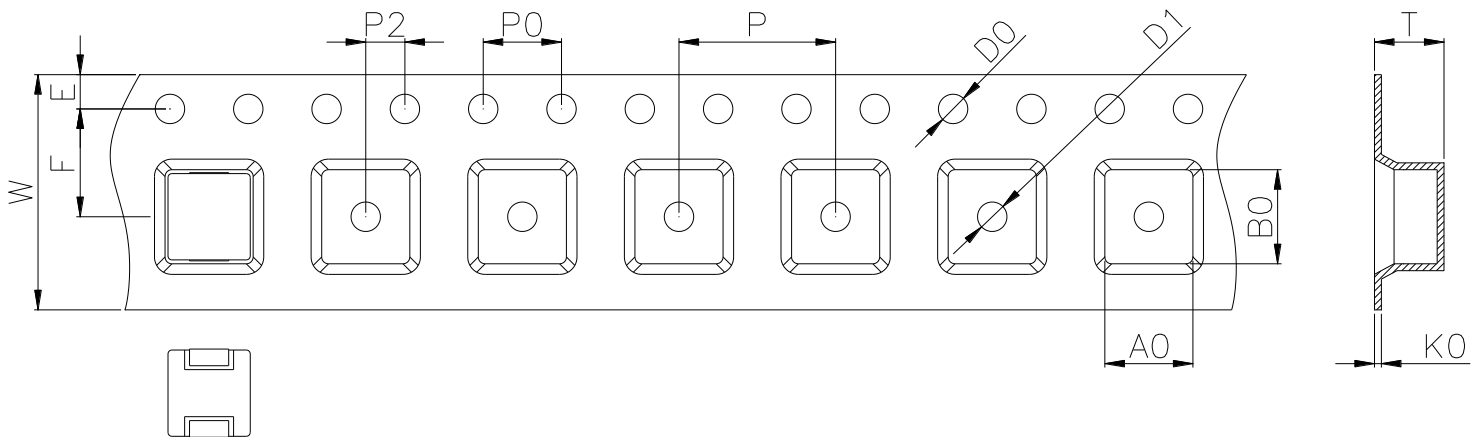
(1) Package quantity : 2,000 (pcs/reel)

(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	A0	B0	K0	E	F	P	P0	P2	D0/D1	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	+0.10	+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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