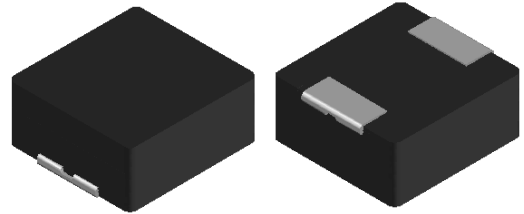


# CMI-MMPP4020HL-SERIES

## Features

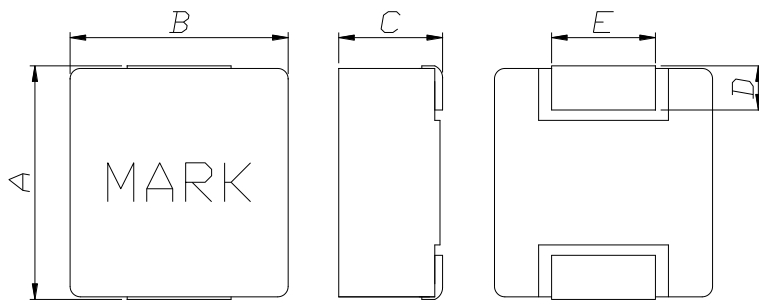
- ▶ Small size, high current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.



## Applications

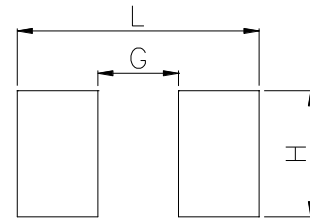
- ▶ For DC/DC converter, AV equipment digital consumer electronics

### Dimension (Unit:mm)



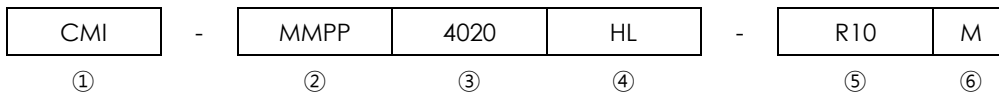
A	B	C	D	E
4.4±0.35	4.2±0.25	2.0 Max	0.8±0.2	2.0±0.2

### 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 (0.10uH)
- 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-MMPP4020HL-R10M	0.10	3.6(3.0)	25.00(30.00)	16.00(16.50)	1M
CMI-MMPP4020HL-R47M	0.47	17.4(14.5)	10.80(12.00)	7.50(8.00)	1M
CMI-MMPP4020HL-R68M	0.68	18.6(15.5)	10.50(11.50)	7.00(7.50)	1M
CMI-MMPP4020HL-1R0M	1.0	30.0(25.0)	10.00(11.00)	5.00(5.50)	1M
CMI-MMPP4020HL-1R5M	1.5	36.0(30.0)	7.50(8.50)	4.50(5.00)	1M
CMI-MMPP4020HL-2R2M	2.2	57.6(48.0)	7.00(7.50)	4.00(4.20)	1M
CMI-MMPP4020HL-3R3M	3.3	72.0(60.0)	5.00(5.50)	3.70(3.90)	1M
CMI-MMPP4020HL-4R7M	4.7	120(100)	3.20(3.40)	2.80(3.00)	1M
CMI-MMPP4020HL-6R8M	6.8	144(120)	3.00(3.20)	2.20(2.40)	1M
CMI-MMPP4020HL-8R2M	8.2	192(160)	2.90(3.10)	2.10(2.30)	1M
CMI-MMPP4020HL-100M	10	240(200)	2.80(3.00)	1.90(2.10)	1M
CMI-MMPP4020HL-150M	15	300(250)	2.50(2.80)	1.70(1.90)	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

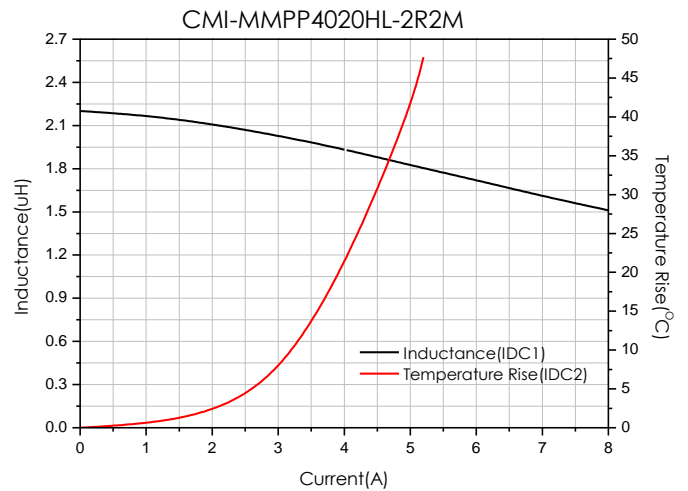
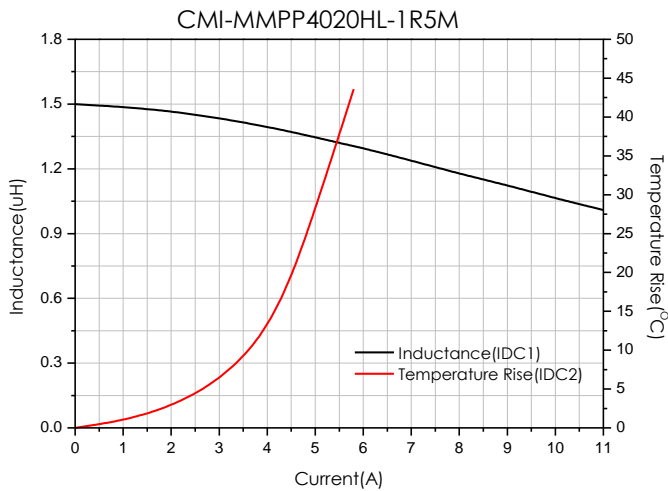
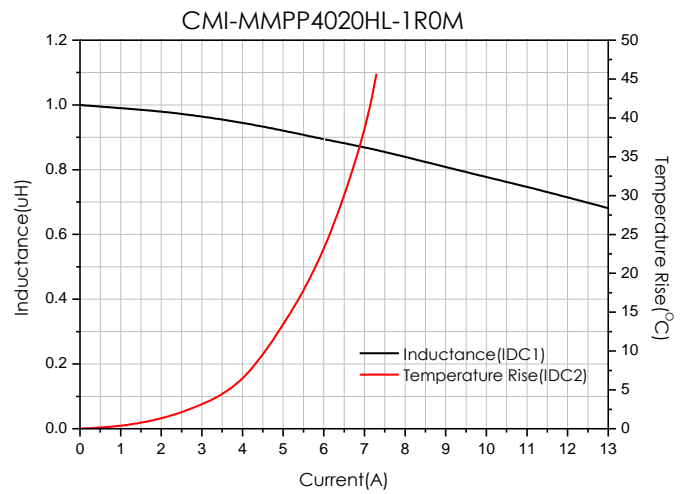
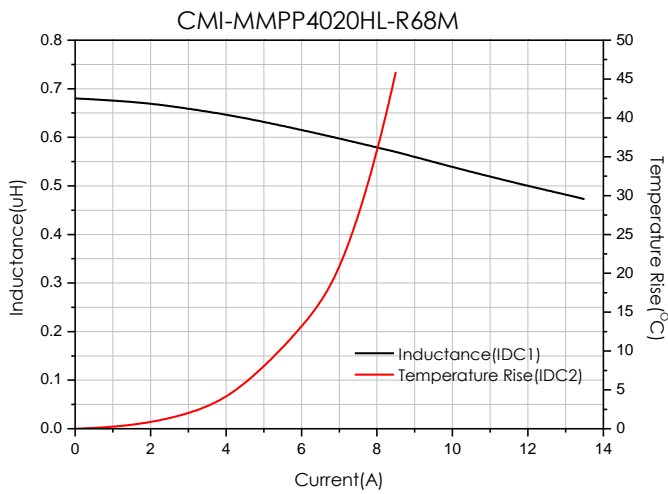
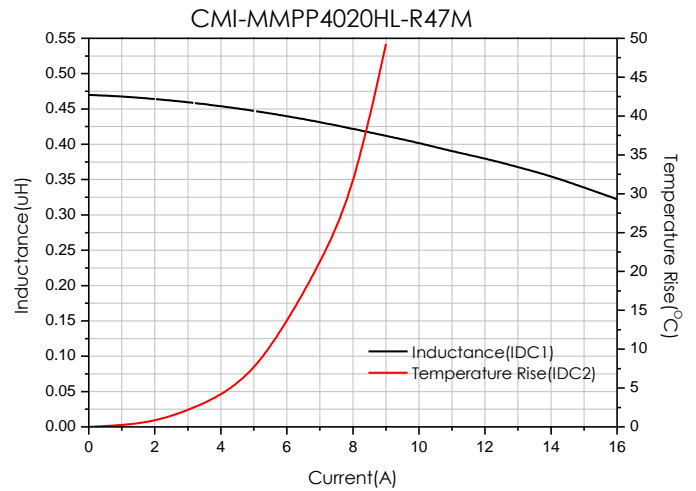
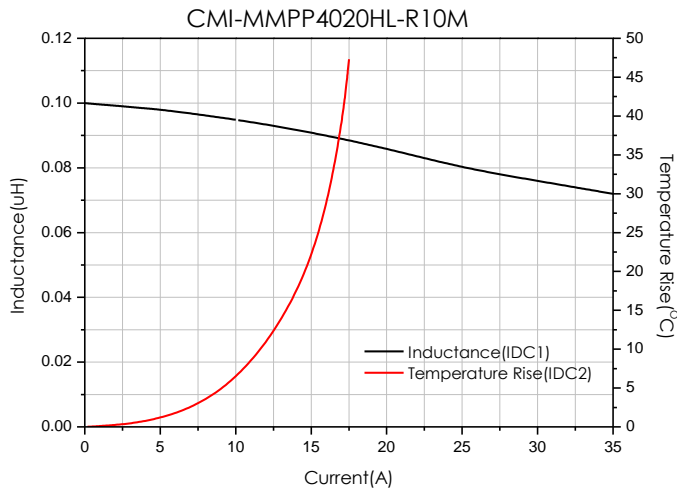
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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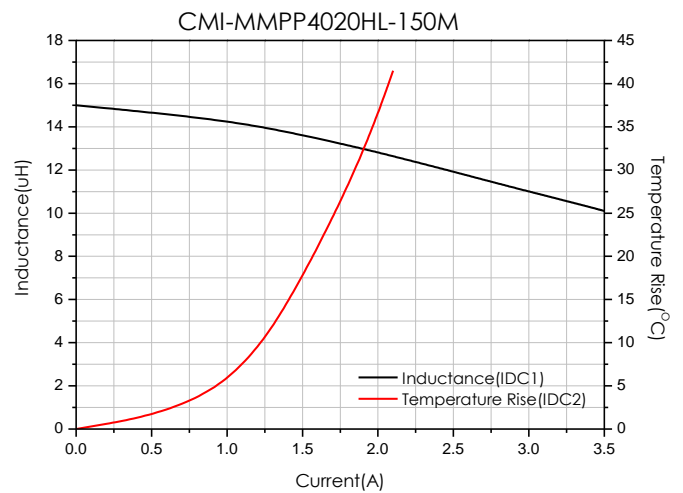
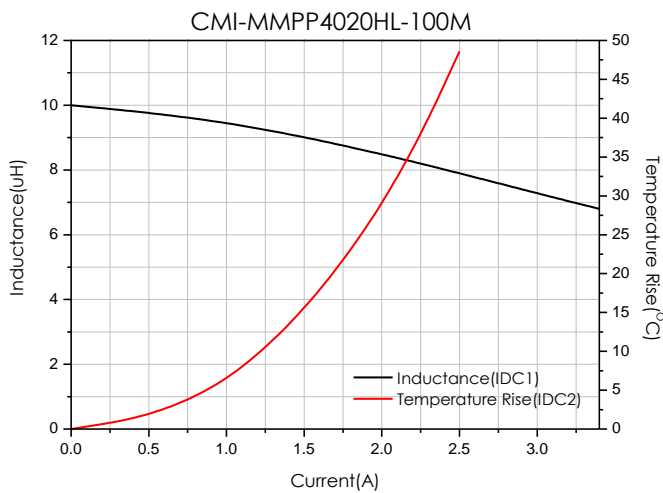
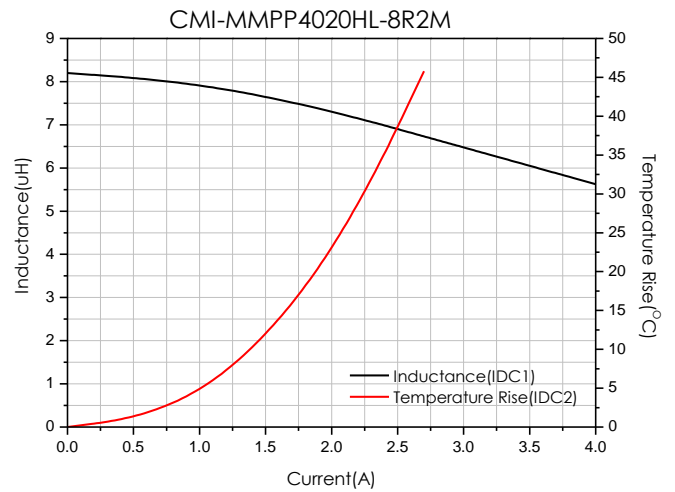
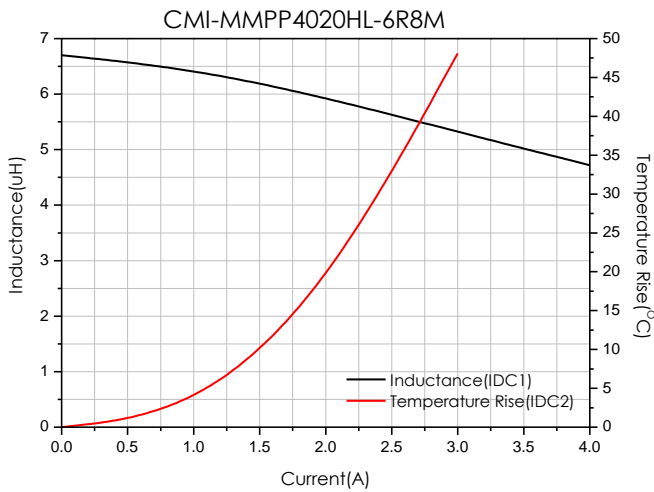
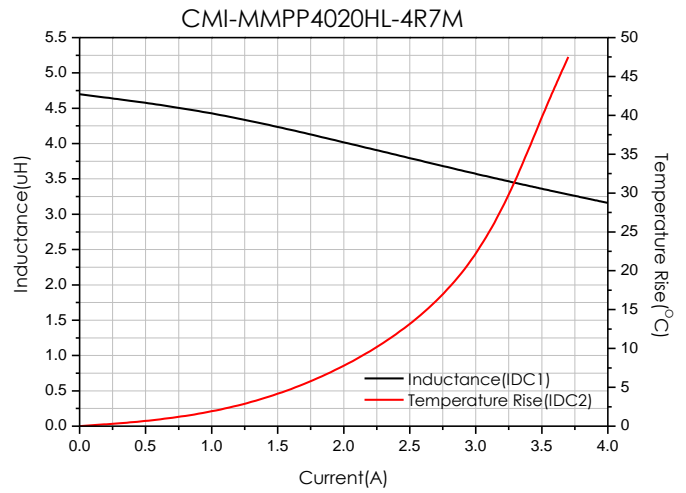
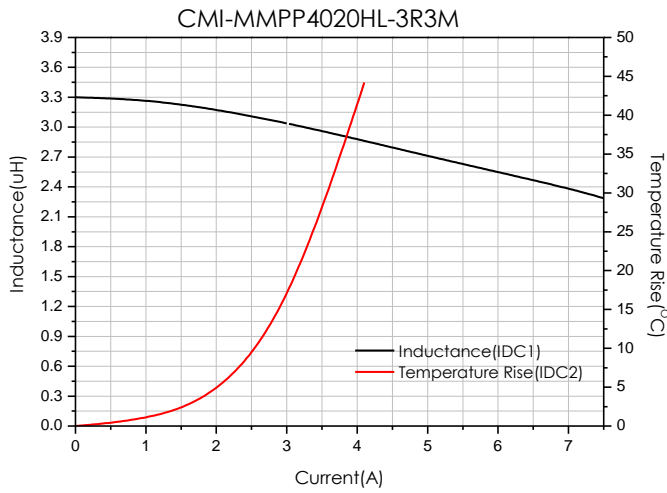
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## Electrical characteristics



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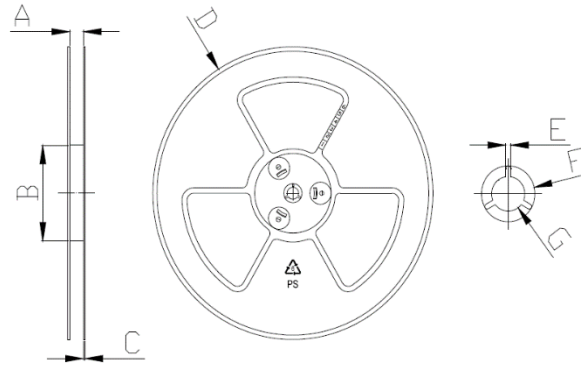
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## Packaging

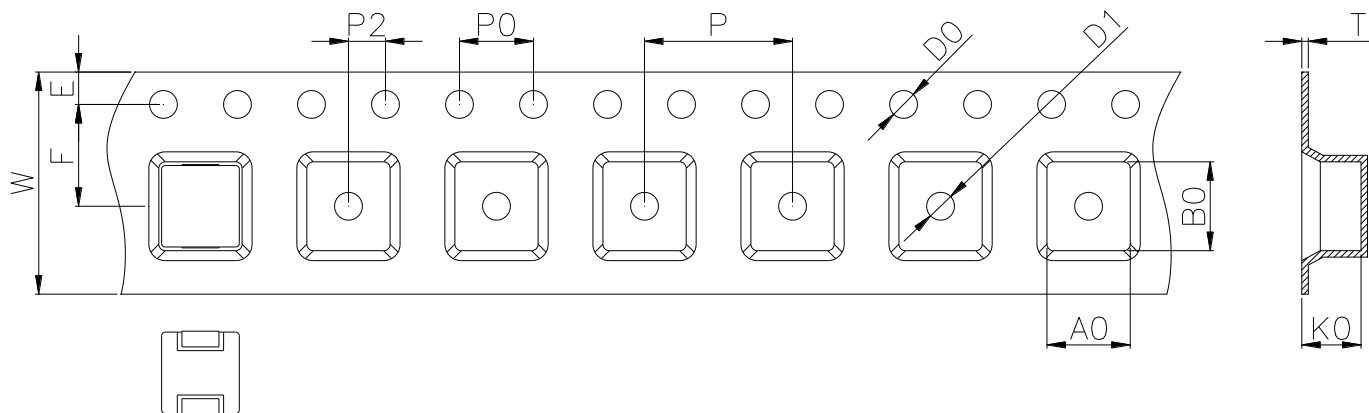
(1) Package quantity : 3,000 (pcs/reel)

(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	4.60	4.90	2.20	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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