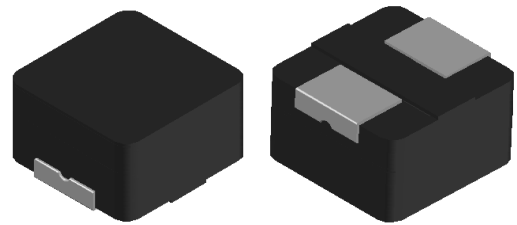


# CMI-CMMPP5030HL-SERIES

## Features

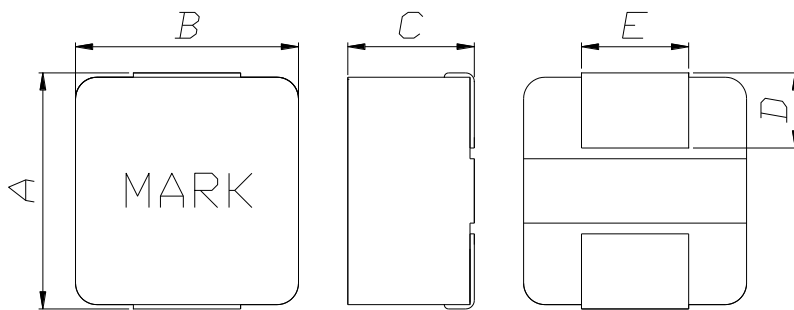
- ▶ High current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.
- ▶ AEC-Q200 qualified.



## Applications

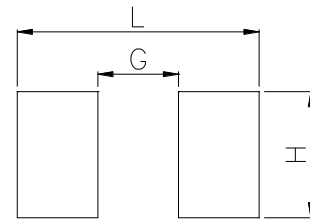
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

Dimension (Unit:mm)



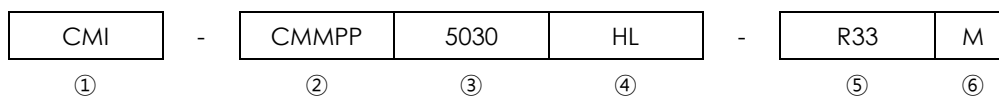
A	B	C	D	E
5.4±0.35	5.2±0.25	3.0 Max	1.5±0.2	2.5±0.2

Land Pattern (Unit:mm)



L	G	H
6.0	2.2	3.0

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Magic Material Pin type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.33uH)
- 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-CMMPP5030HL-R33M	0.33	4.8(4.0)	21.00(25.00)	14.50(15.00)	1M
CMI-CMMPP5030HL-R47M	0.47	7.2(6.0)	14.00(16.00)	12.50(13.50)	1M
CMI-CMMPP5030HL-R68M	0.68	7.8(6.5)	13.00(15.00)	12.00(13.00)	1M
CMI-CMMPP5030HL-1R0M	1.0	12.0(10.0)	11.00(13.00)	8.50(9.50)	1M
CMI-CMMPP5030HL-1R5M	1.5	21.0(17.5)	10.00(11.00)	7.00(7.50)	1M
CMI-CMMPP5030HL-2R2M	2.2	24.0(20.0)	9.00(9.50)	6.00(6.50)	1M
CMI-CMMPP5030HL-3R3M	3.3	36.0(30.0)	7.50(8.00)	5.70(6.00)	1M
CMI-CMMPP5030HL-4R7M	4.7	44.4(37.0)	6.20(6.70)	5.10(5.50)	1M
CMI-CMMPP5030HL-5R6M	5.6	60.0(50.0)	5.50(6.00)	4.30(4.80)	1M
CMI-CMMPP5030HL-6R8M	6.8	66.0(55.0)	4.80(5.30)	3.80(4.20)	1M
CMI-CMMPP5030HL-100M	10	100(85.0)	3.60(4.00)	3.20(3.60)	1M
CMI-CMMPP5030HL-150M	15	190(160)	3.10(3.50)	2.30(2.50)	1M
CMI-CMMPP5030HL-220M	22	220(185)	2.50(2.80)	2.00(2.20)	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 ~ +165 °C

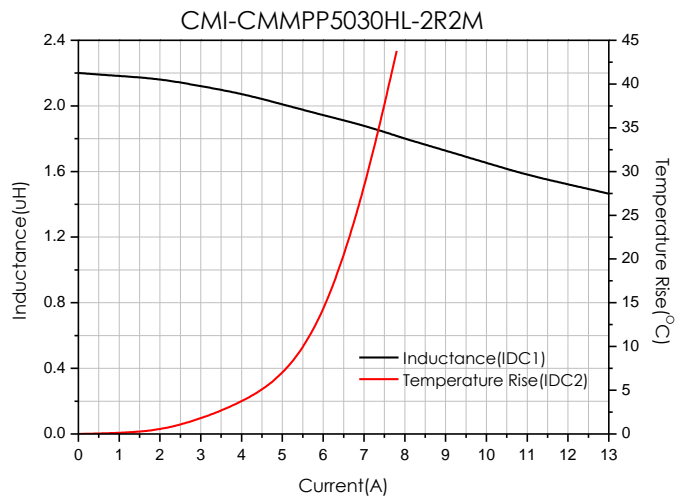
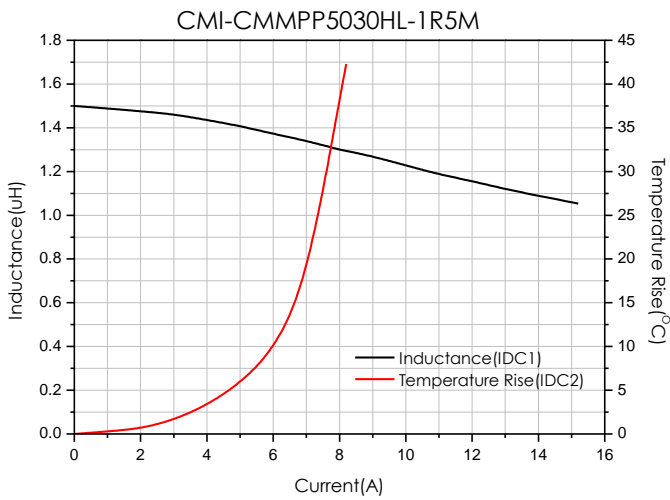
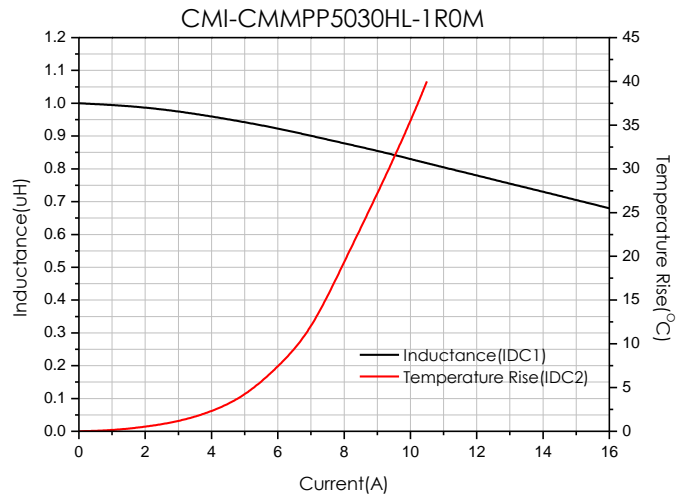
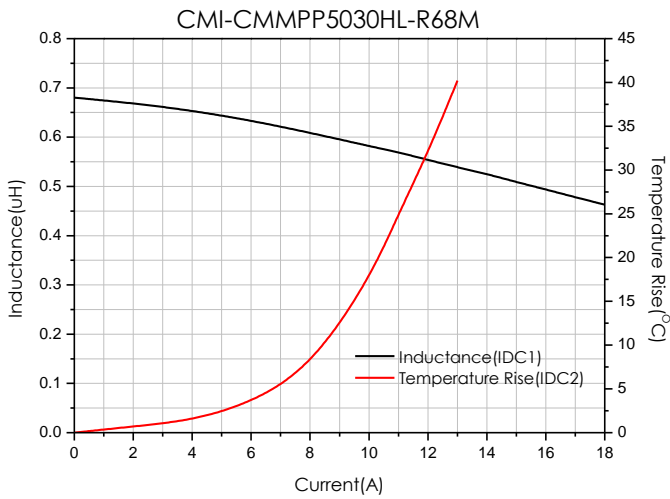
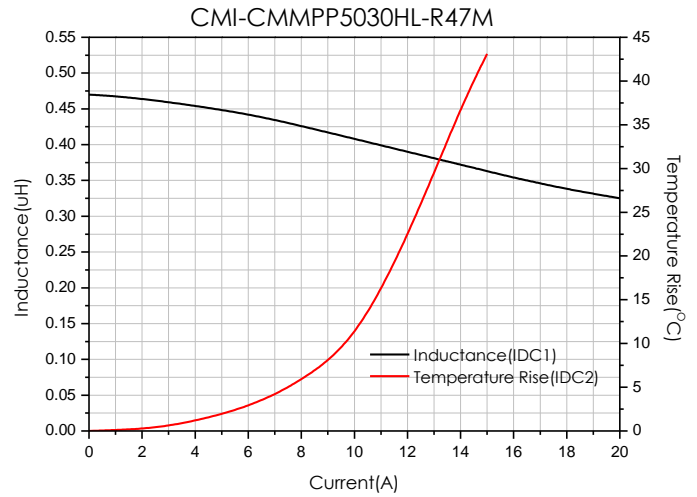
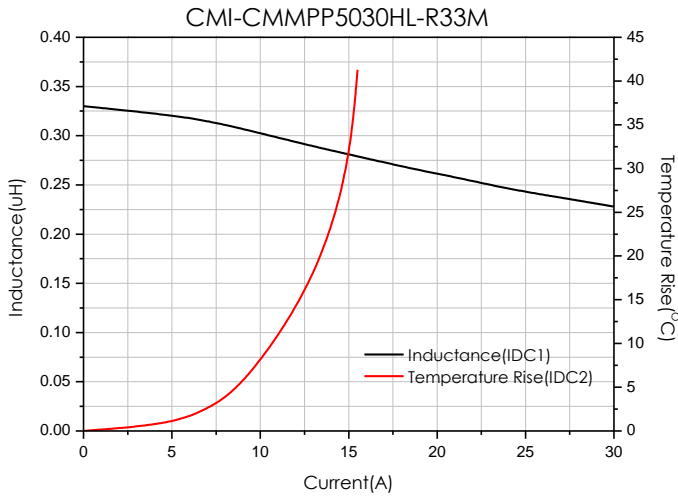
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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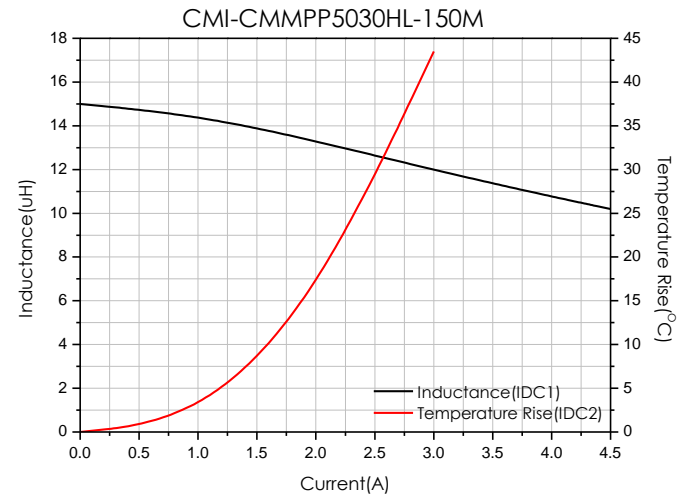
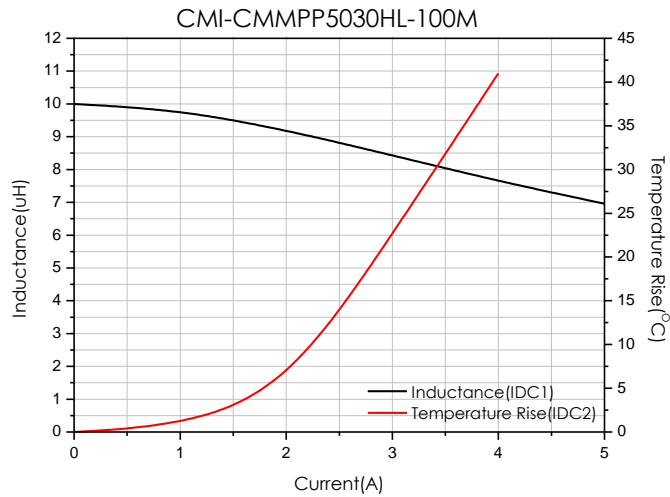
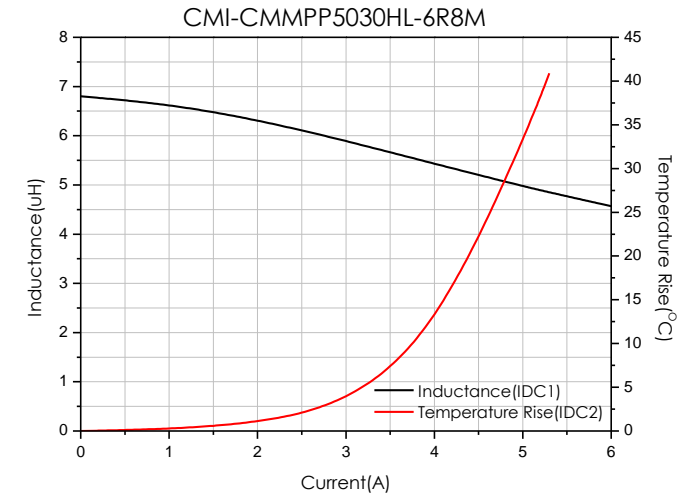
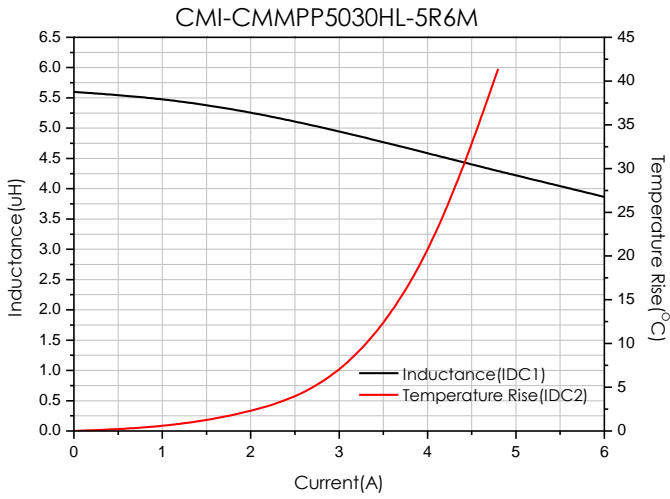
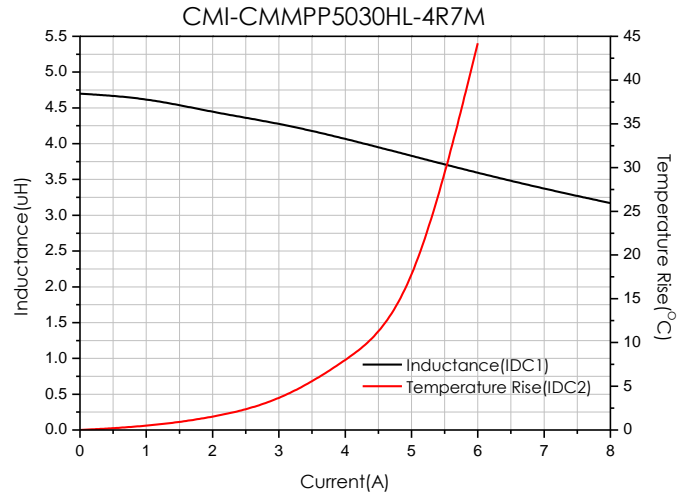
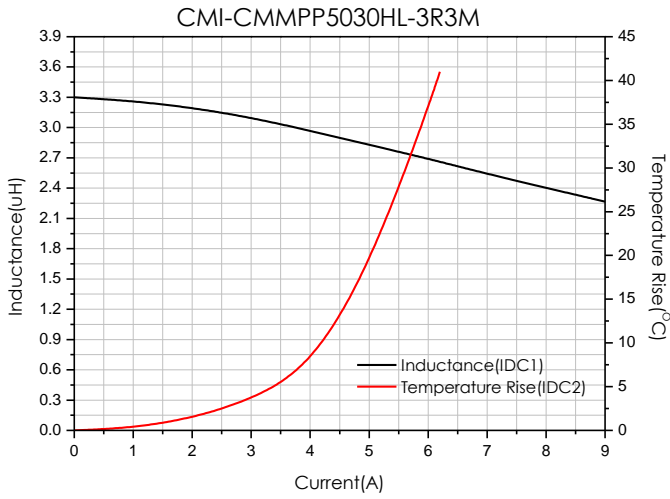
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# Electrical characteristics

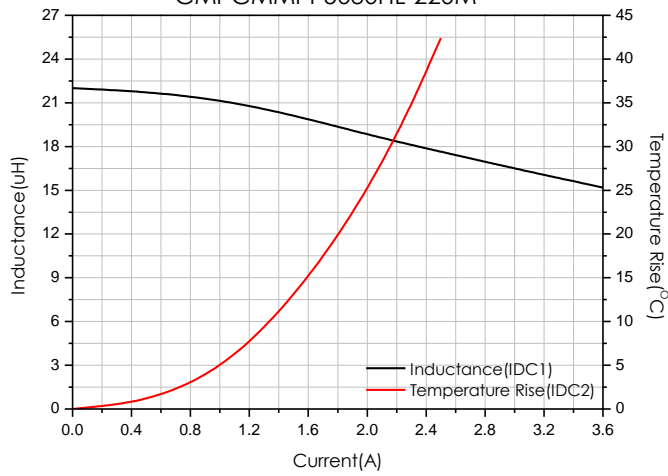


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CMI-CMMPP5030HL-220M

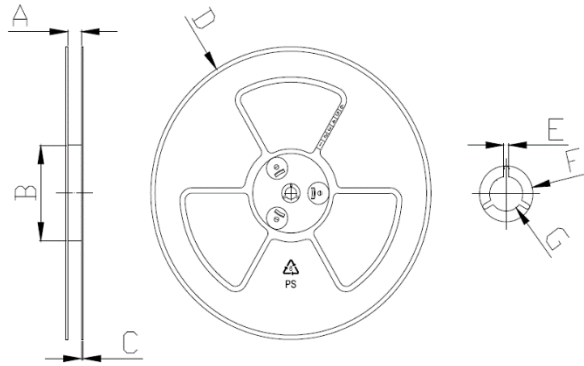


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## Packaging

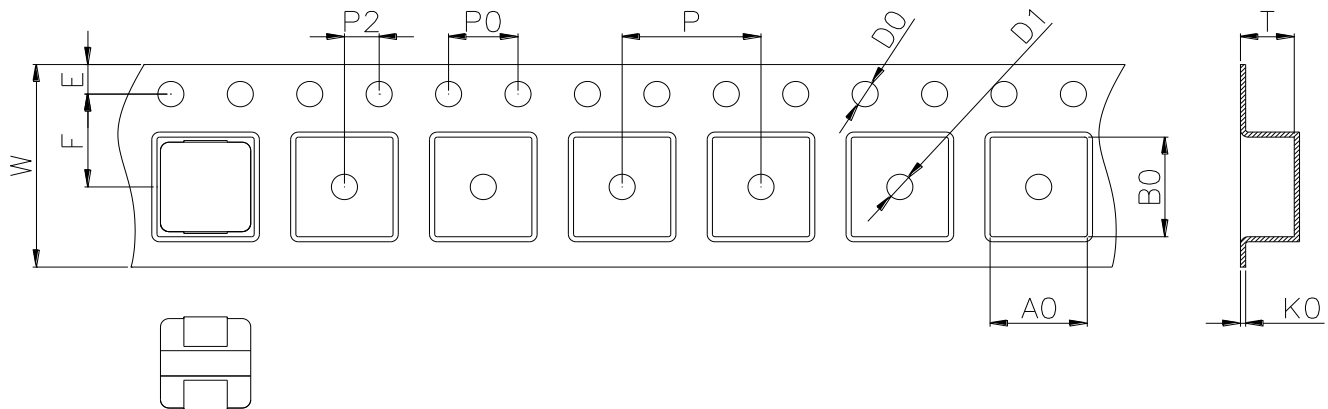
(1) Package quantity : 1,500 (pcs/reel)

(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	5.60	5.90	3.10	1.75	5.50	8.00	4.00	2.00	1.50	0.30
+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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