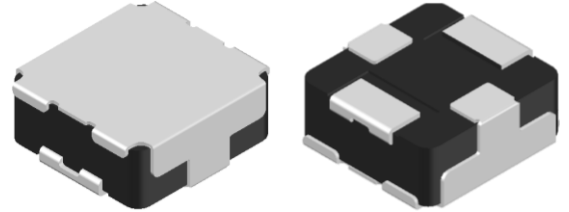




CMI-CMMPP7030HL-SC SERIES

Features

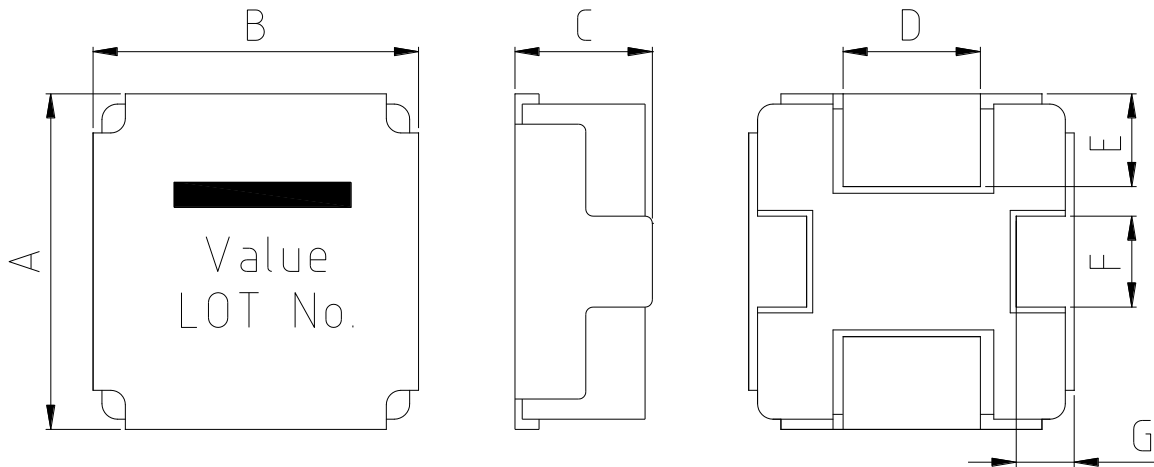
- ▶ High current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

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

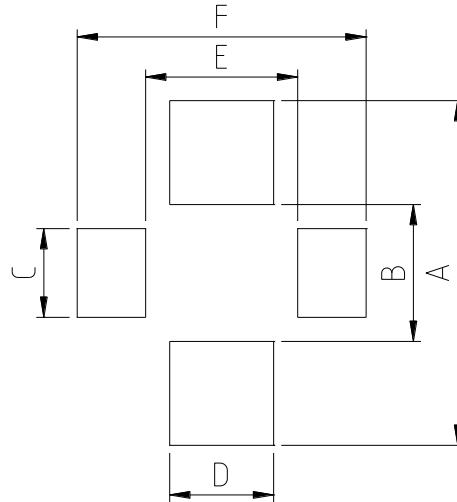
Dimension (Unit:mm)



A	B	C	D	E	F	G
7.3±0.35	7.0±0.25	3.3 Max	3.0±0.3	1.6±0.3	2.0±0.3	1.6±0.3

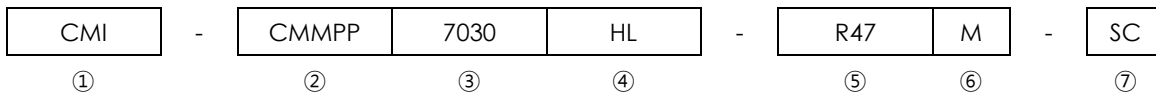
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Land Pattern (Unit:mm)



A	B	C	D	E	F
8.4	3.7	2.4	3.5	5.0	8.4

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 (0.47 uH)
- ⑥ Inductance tolerance ($\pm 20\%$)
- ⑦ Revision (SC)

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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-CMMPP7030HL-R47M-SC	0.47	4.8(4.0)	29.00(32.00)	14.50(15.50)	1M
CMI-CMMPP7030HL-R68M-SC	0.68	6.6(5.5)	26.00(29.00)	13.50(14.50)	1M
CMI-CMMPP7030HL-1R0M-SC	1.0	7.5(6.5)	16.00(18.00)	13.00(14.00)	1M
CMI-CMMPP7030HL-1R5M-SC	1.5	15.0(12.5)	19.00(21.00)	8.50(9.00)	1M
CMI-CMMPP7030HL-2R2M-SC	2.2	15.6(13.0)	13.50(15.00)	7.50(8.00)	1M
CMI-CMMPP7030HL-3R3M-SC	3.3	29.0(24.0)	12.00(13.00)	6.30(6.70)	1M
CMI-CMMPP7030HL-4R7M-SC	4.7	36.0(30.0)	9.50(10.50)	6.00(6.50)	1M
CMI-CMMPP7030HL-6R8M-SC	6.8	62.4(52.0)	8.00(9.00)	5.60(6.20)	1M
CMI-CMMPP7030HL-100M-SC	10	72.0(60.0)	6.00(7.00)	4.10(4.20)	1M
CMI-CMMPP7030HL-150M-SC	15	76.0(64.0)	5.00(5.50)	4.00(4.10)	1M
CMI-CMMPP7030HL-220M-SC	22	112(93.0)	3.90(4.30)	3.20(3.40)	1M
CMI-CMMPP7030HL-330M-SC	33	240(200)	3.00(3.50)	2.50(2.70)	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

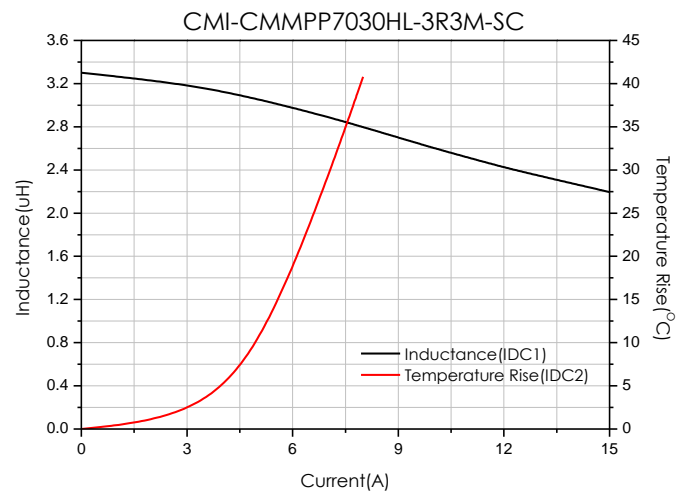
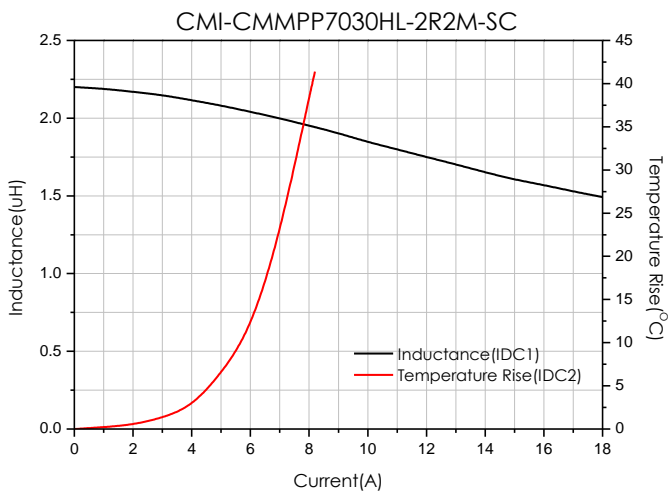
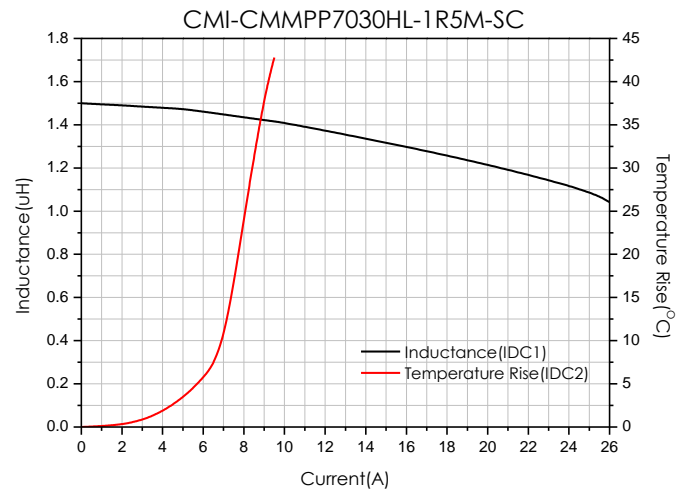
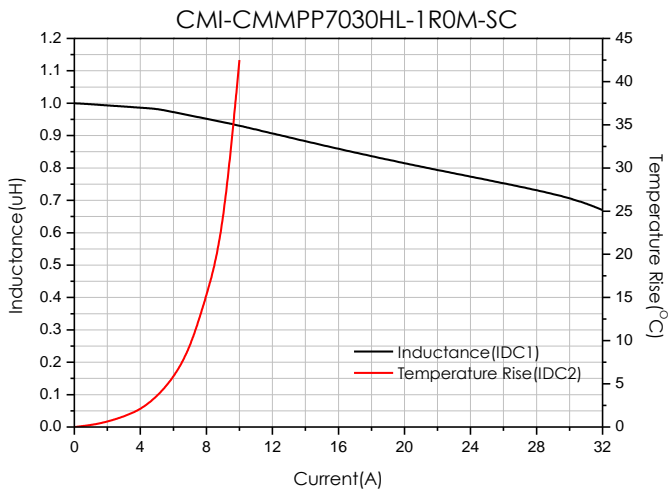
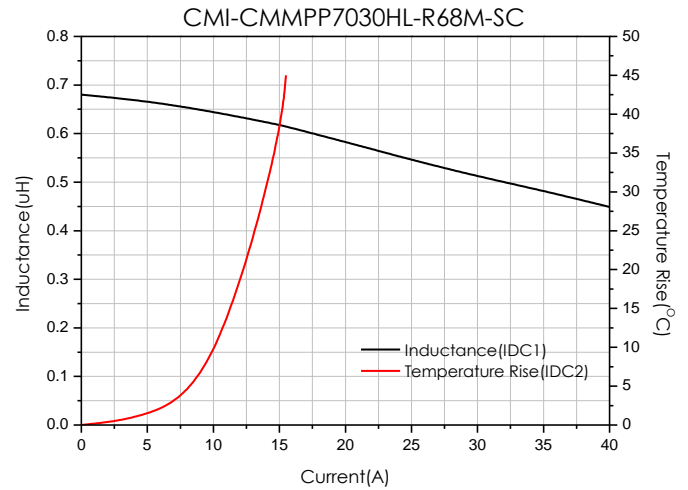
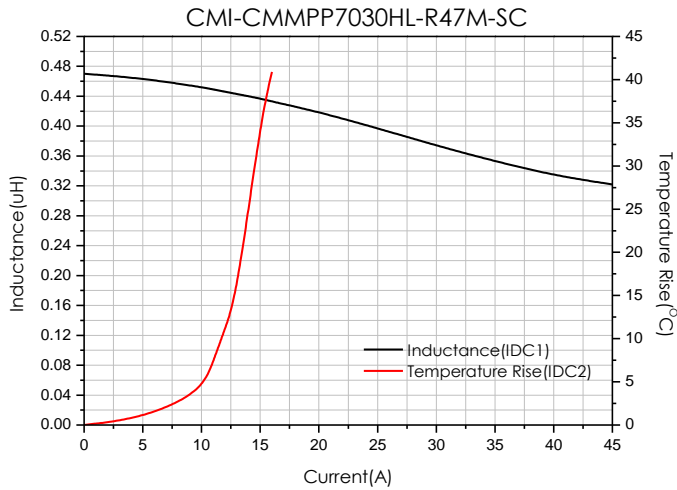
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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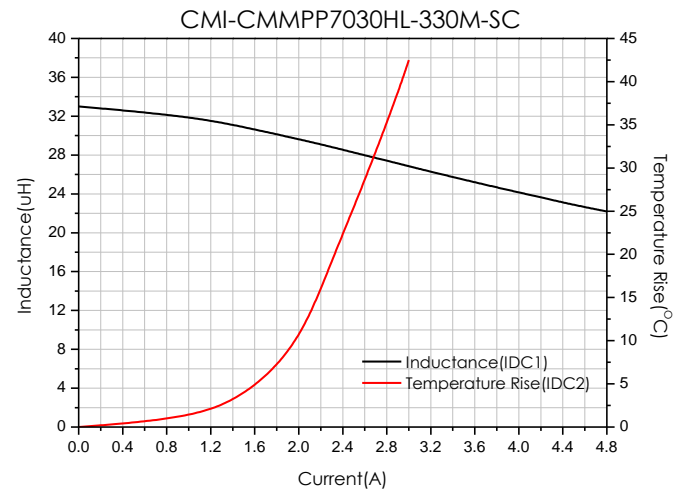
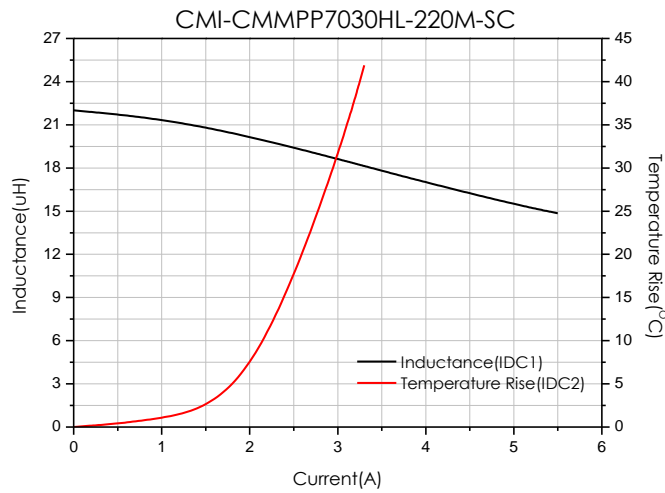
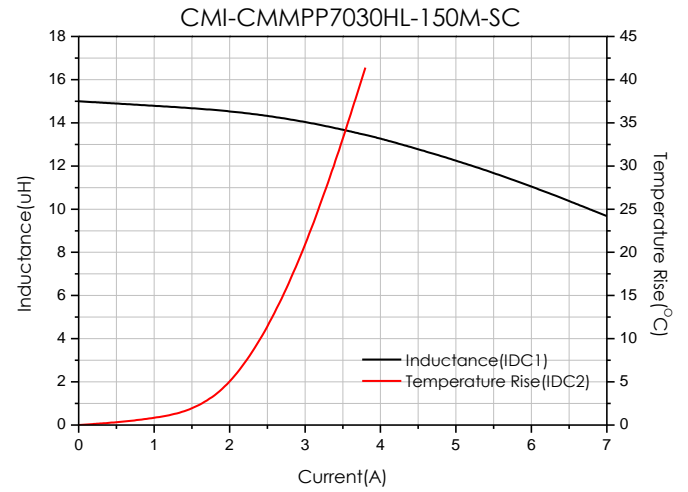
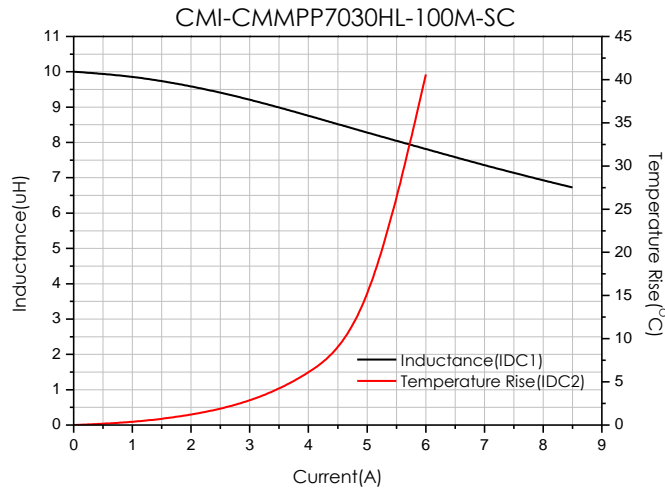
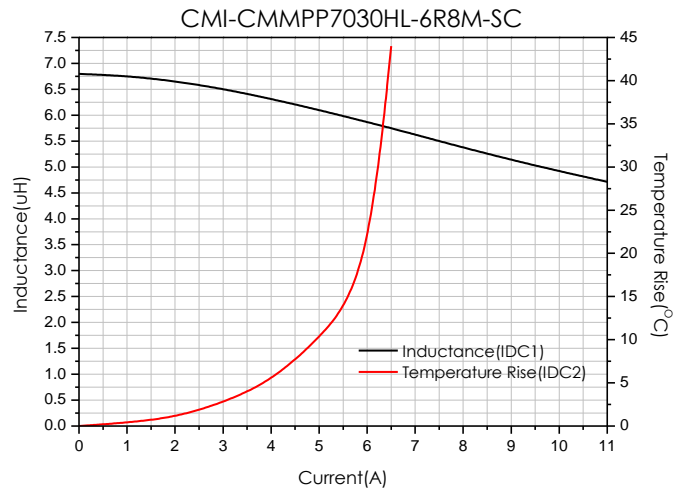
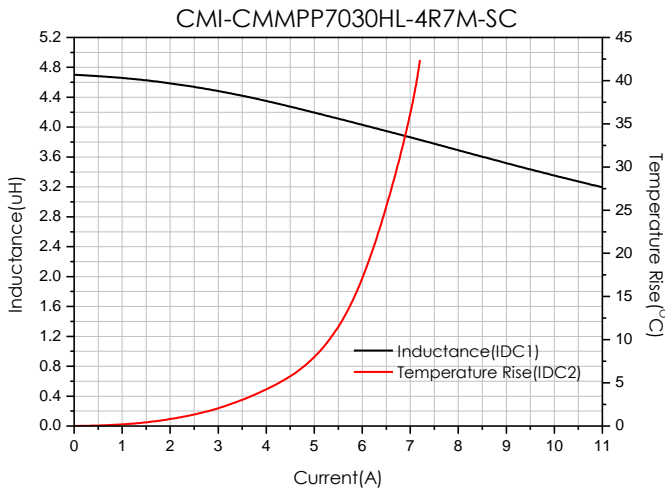
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Electrical characteristic



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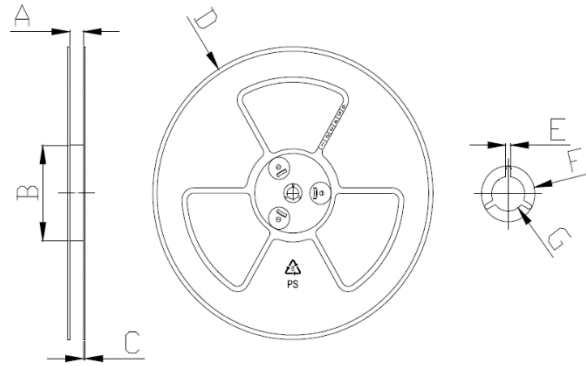


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Packaging

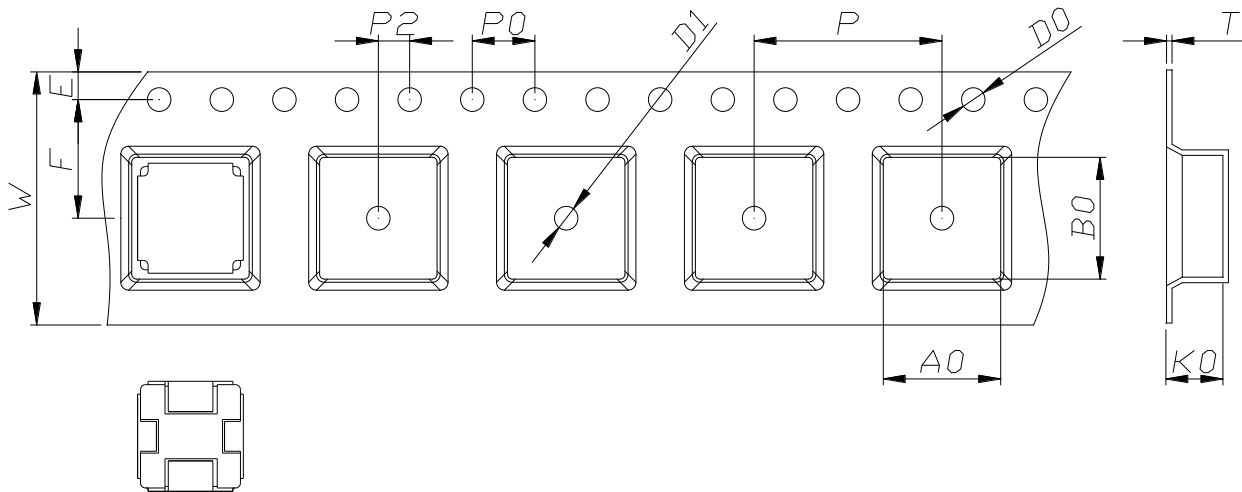
(1) Package quantity : 1,000 (pcs/reel)

(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
16.00	7.50	7.50	3.60	1.75	7.50	12.00	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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