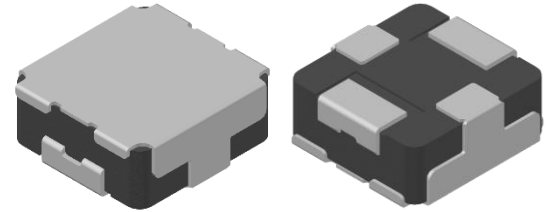


# CMI-CMMPP7030HL-SC SERIES

## Features

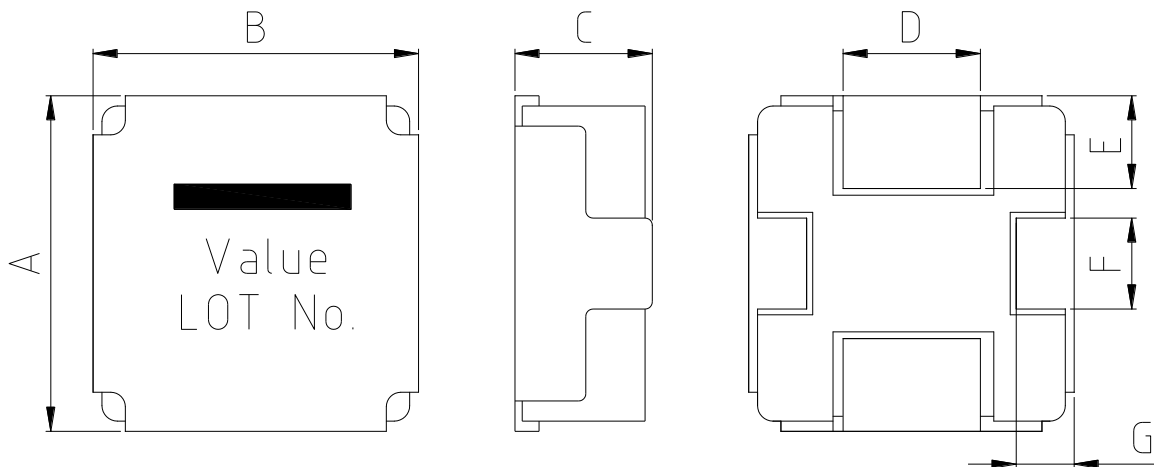
- ▶ Strong to vibration.
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



## Applications

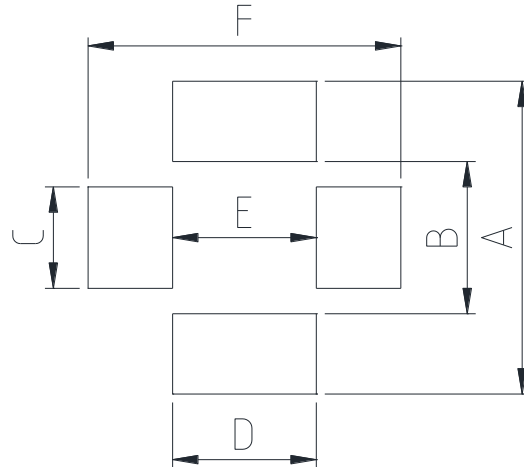
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

## Dimension (Unit:mm)



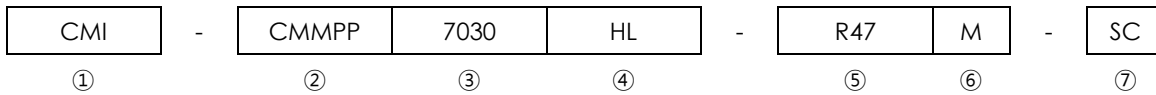
A	B	C	D	E	F	G
7.3 ±0.35	7.25 ±0.25	3.3 Max.	3.0 ±0.3	1.6 ±0.3	2.0 ±0.3	1.6 ±0.3

## Land Pattern (Unit:mm)



A	B	C	D	E	F
7.4	3.6	2.4	3.4	3.4	7.4

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Pin type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.47uH)
- ⑥ Inductance tolerance ( $\pm 20\%$ )
- ⑦ Revision (SC)

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## Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP7030HL-R47M-SC	0.47	4.8(4)	29.0(32.0)	14.5(15.5)	1M
CMI-CMMPP7030HL-R68M-SC	0.68	6.6(5.5)	26.0(29.0)	13.5(14.5)	1M
CMI-CMMPP7030HL-1R0M-SC	1.0	7.5(6.5)	17.0(19.0)	13.0(14.0)	1M
CMI-CMMPP7030HL-1R5M-SC	1.5	15(12.5)	16.0(18.0)	8.5(9.0)	1M
CMI-CMMPP7030HL-2R2M-SC	2.2	15.6(13)	13.5(15.0)	7.5(8.0)	1M
CMI-CMMPP7030HL-3R3M-SC	3.3	29(24)	12.0(13.0)	6.3(6.7)	1M
CMI-CMMPP7030HL-4R7M-SC	4.7	36(30)	9.5(10.5)	6.0(6.5)	1M
CMI-CMMPP7030HL-6R8M-SC	6.8	62.4(52)	8.0(9.0)	5.6(6.2)	1M
CMI-CMMPP7030HL-100M-SC	10	72(60)	6.0(7.0)	4.1(4.2)	1M
CMI-CMMPP7030HL-150M-SC	15	102(85)	5.0(5.5)	4.0(4.1)	1M
CMI-CMMPP7030HL-220M-SC	22	120(100)	3.9(4.3)	3.2(3.4)	1M
CMI-CMMPP7030HL-330M-SC	33	240(200)	3.0(3.5)	2.5(2.7)	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 ~ +165 °c

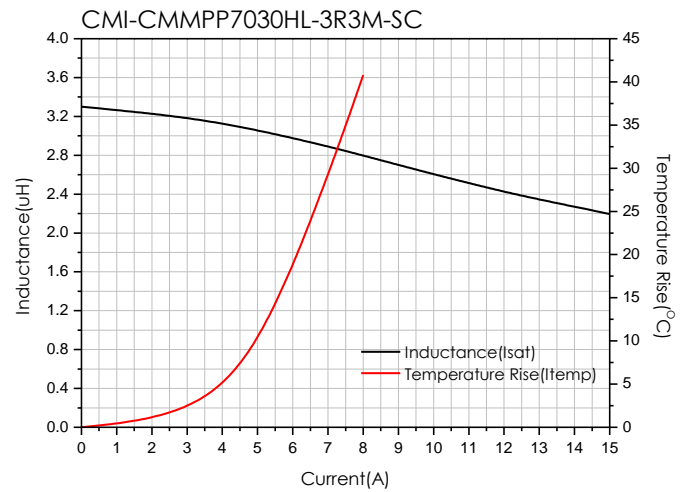
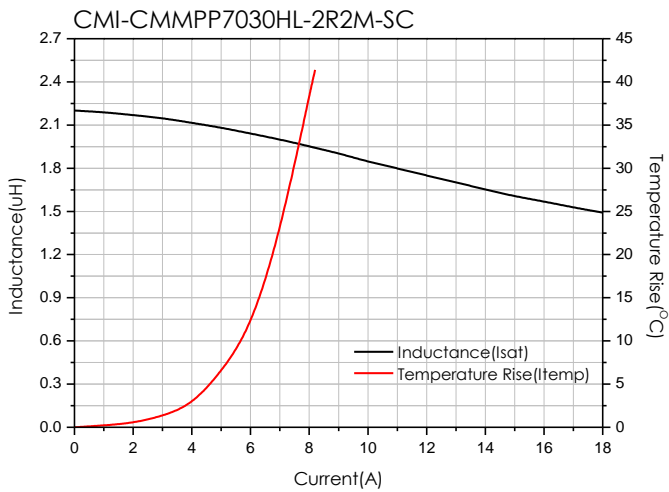
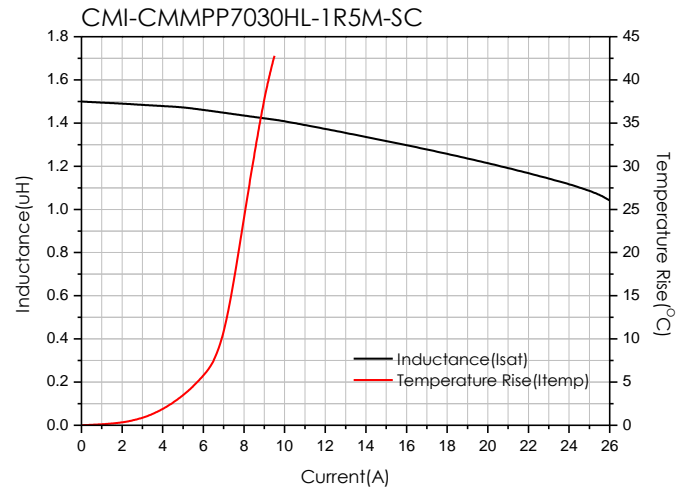
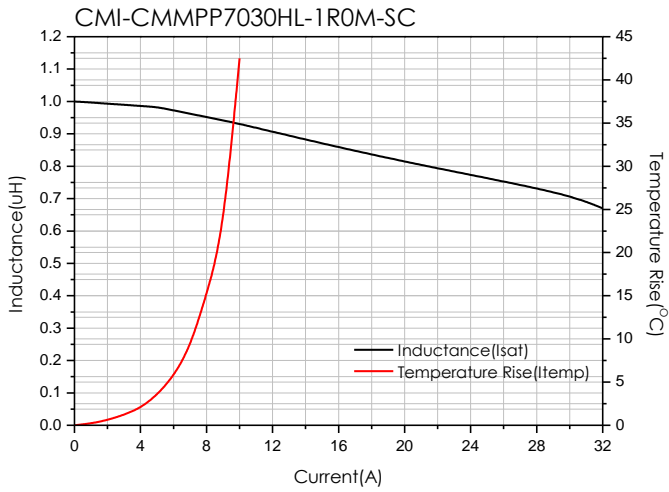
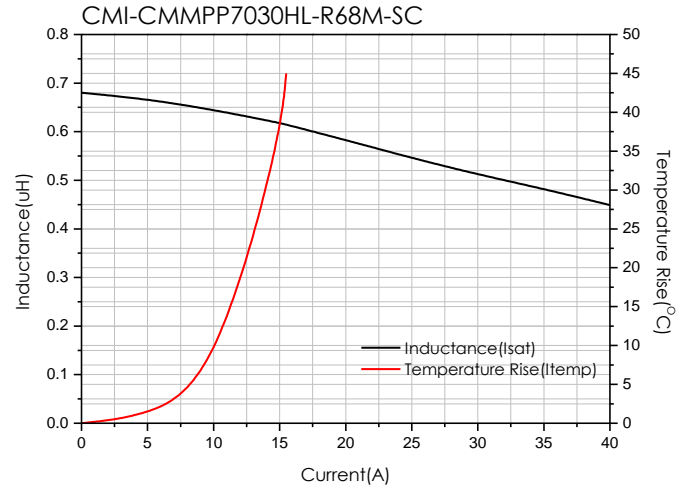
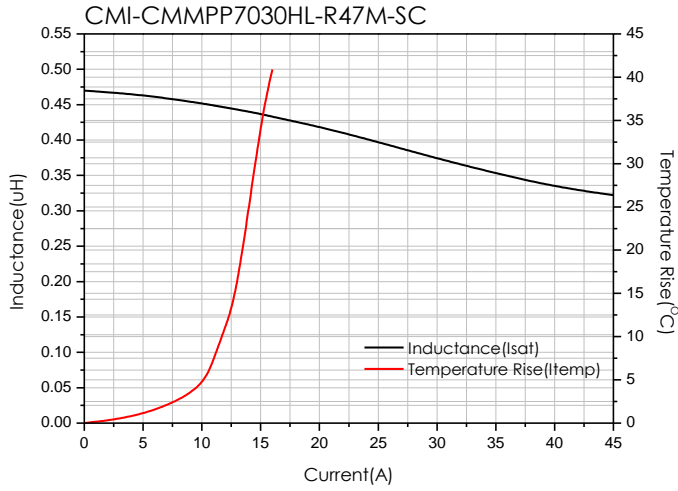
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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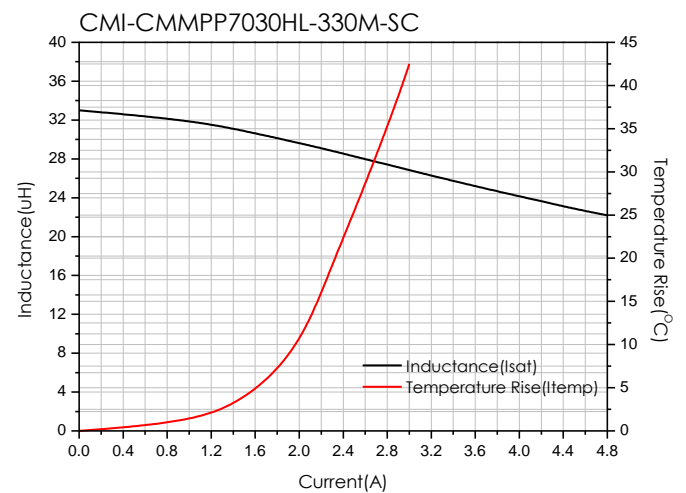
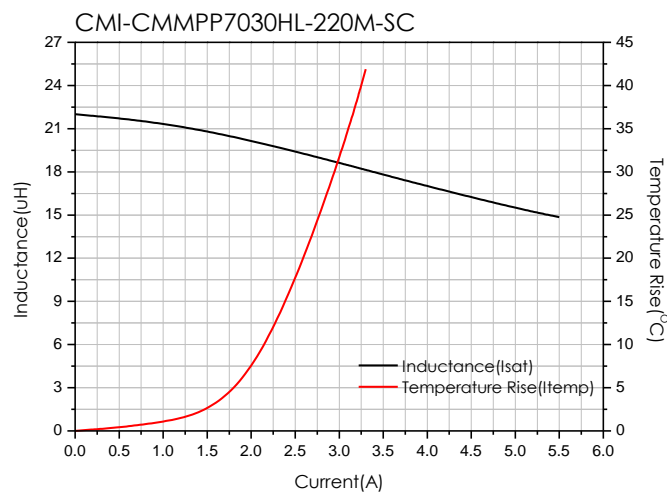
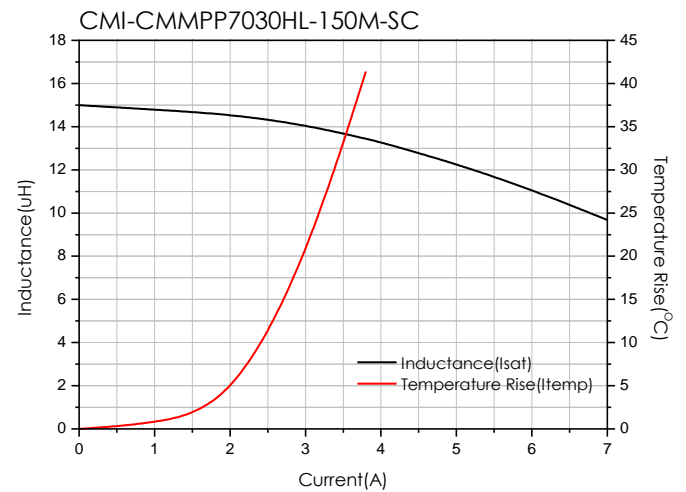
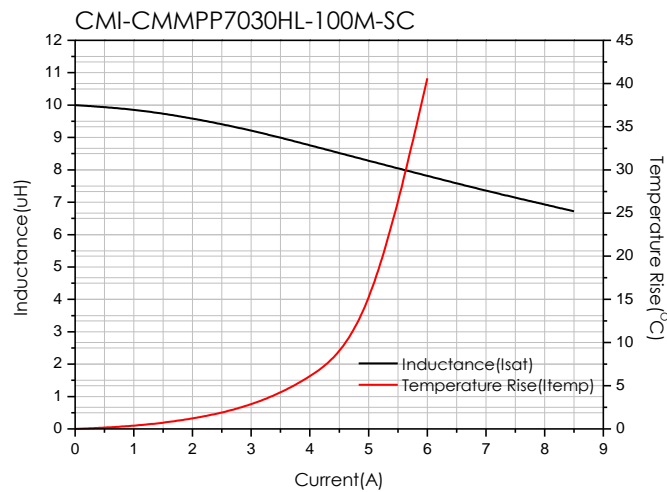
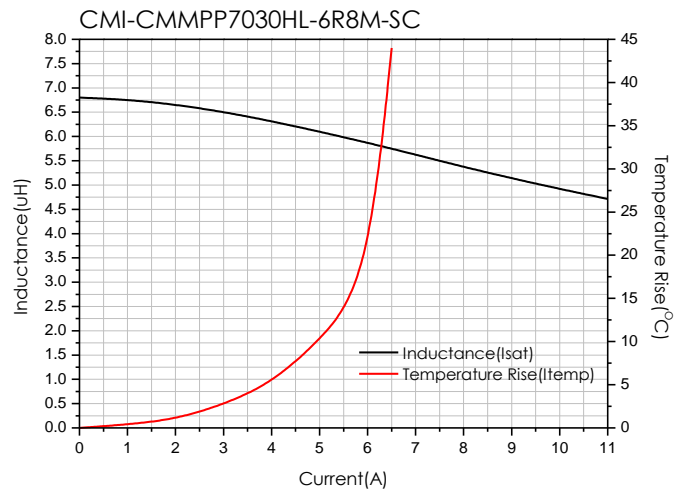
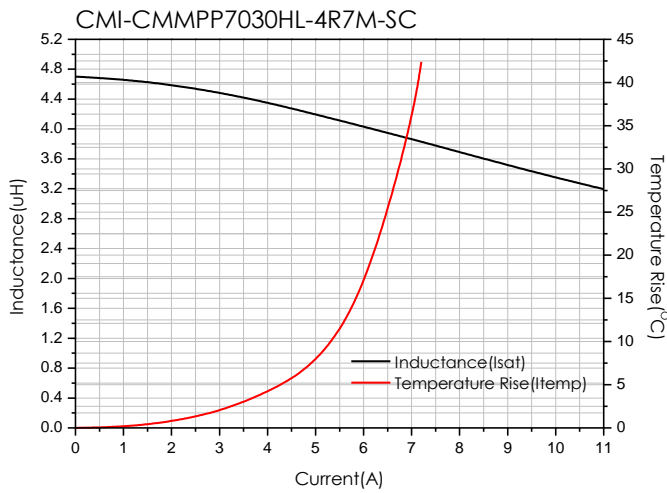
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# Electrical characteristic



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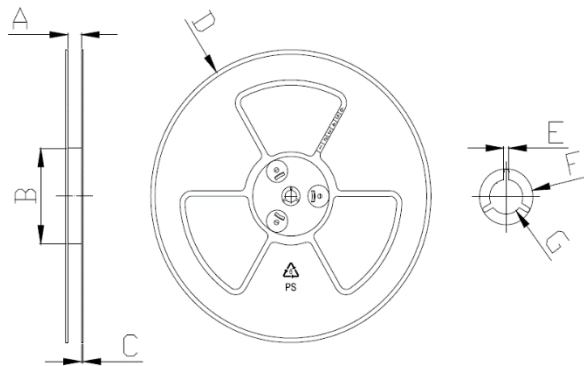


## Packaging

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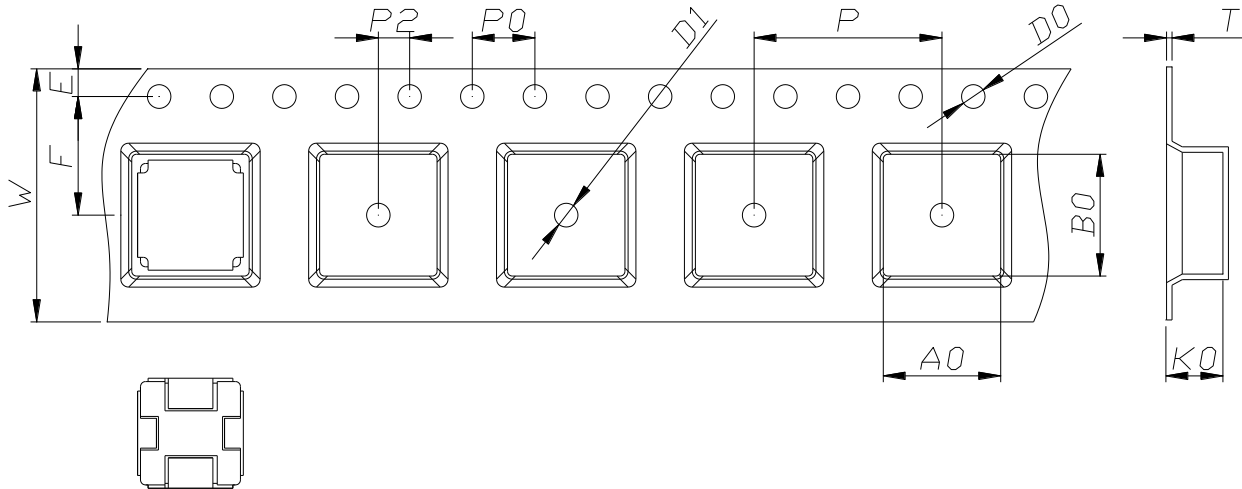
**(1) Package quantity : 1,000 (pcs/reel)**

**(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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