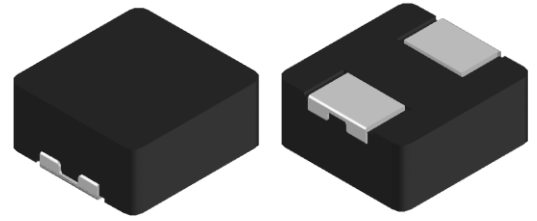


# CMI-CMMPP6040HL-N SERIES

## Features

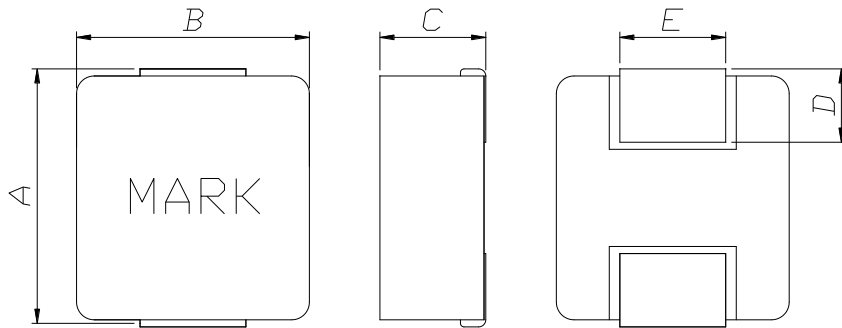
- ▶ High current
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.
- ▶ AEC-Q200 qualified.



## Applications

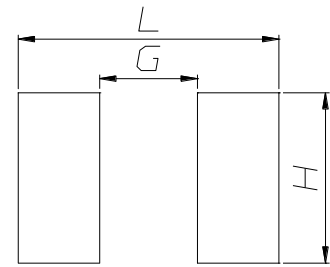
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

### Dimension (Unit:mm)



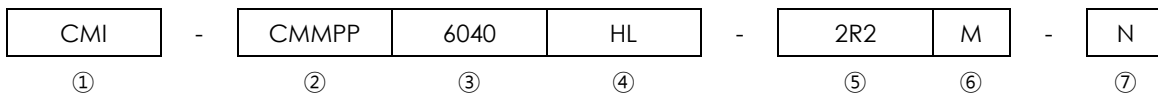
A	B	C	D	E
6.95±0.45	6.6±0.25	4.0 Max	1.8±0.3	3.0±0.3

### Land Pattern (Unit:mm)



L	G	H
8.4	3.7	3.5

## 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 (2.2uH)
- ⑥ Inductance tolerance (±20%)
- ⑦ Revision (N)

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 • Update date : 2021.10.12

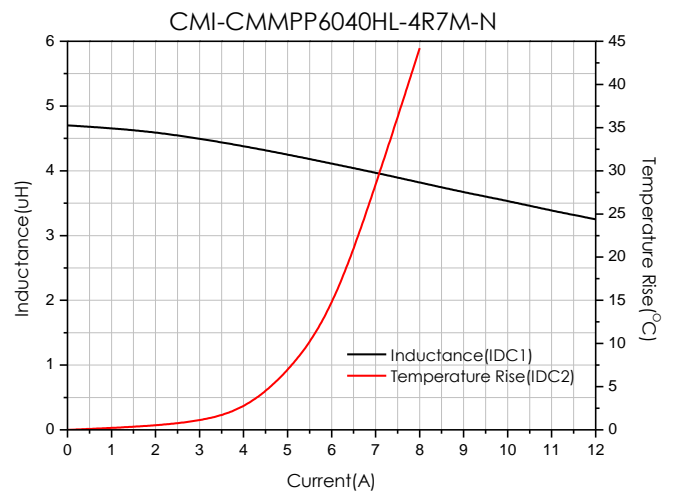
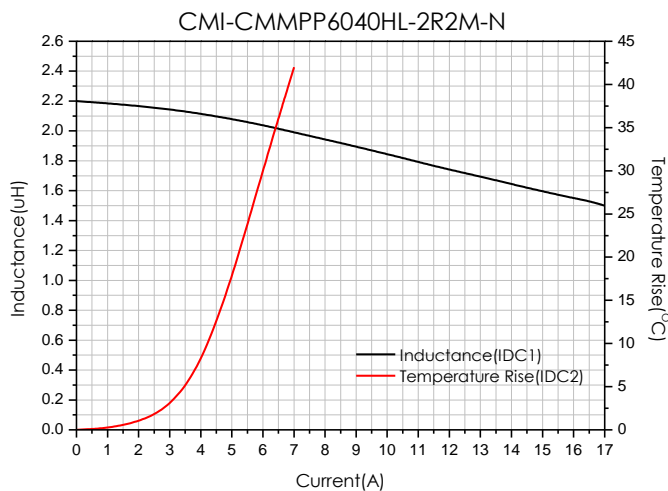
## Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max(Typ)	IDC1(A) Max(Typ)	IDC2(A) Max(Typ)	Test Frequency (Hz)
CMI-CMMPP6040HL-2R2M-N	2.2	14.4(12.0)	12.00(13.50)	8.00(8.50)	1M
CMI-CMMPP6040HL-4R7M-N	4.7	22.2(18.5)	8.50(10.00)	7.00(7.50)	1M
CMI-CMMPP6040HL-6R8M-N	6.8	48.0(40.0)	6.00(7.50)	5.50(6.00)	1M
CMI-CMMPP6040HL-100M-N	10	60.0(50.0)	5.30(5.80)	5.00(5.50)	1M
CMI-CMMPP6040HL-150M-N	15	90.0(75.0)	4.00(4.50)	3.70(4.20)	1M
CMI-CMMPP6040HL-220M-N	22	108(90.0)	3.50(4.00)	3.50(4.00)	1M
CMI-CMMPP6040HL-330M-N	33	156(130)	2.80(3.30)	2.80(3.30)	1M

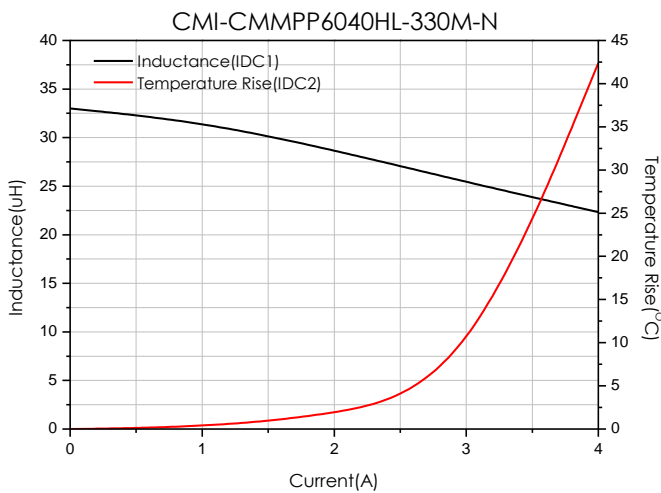
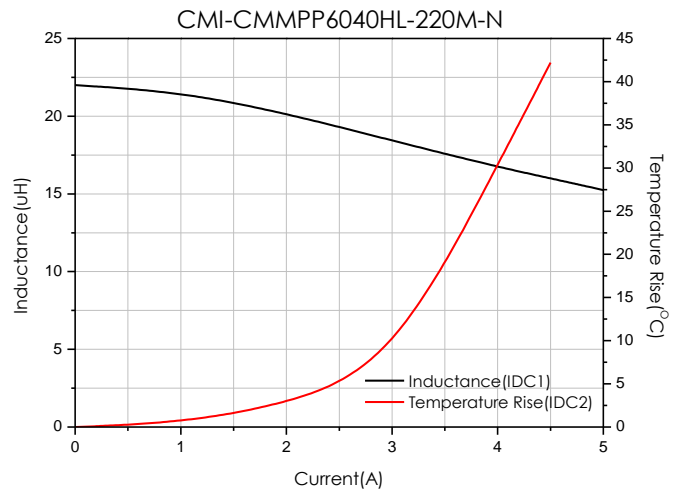
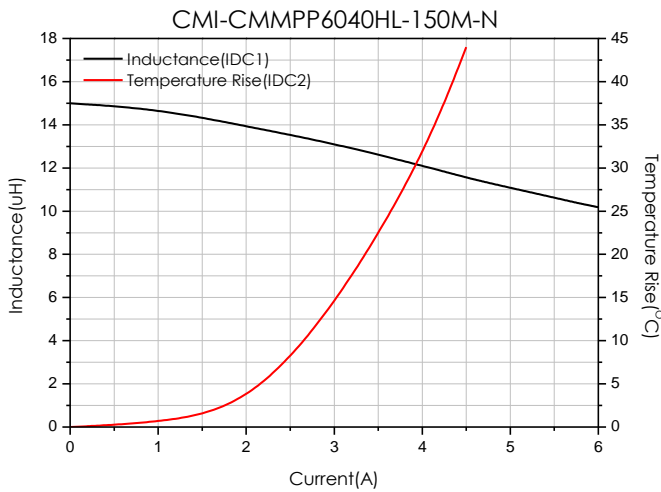
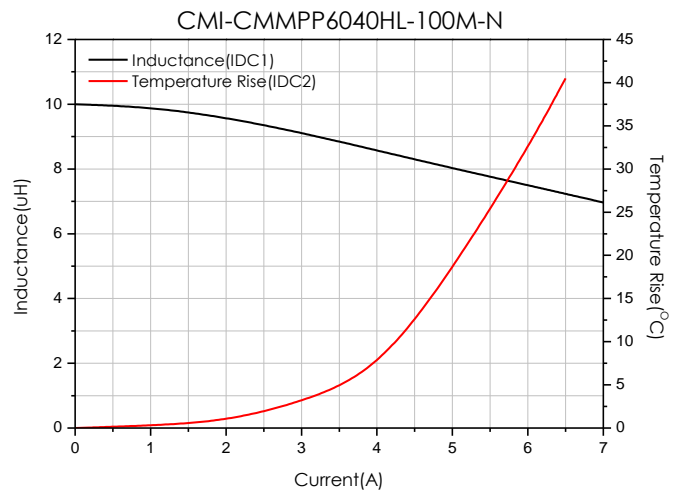
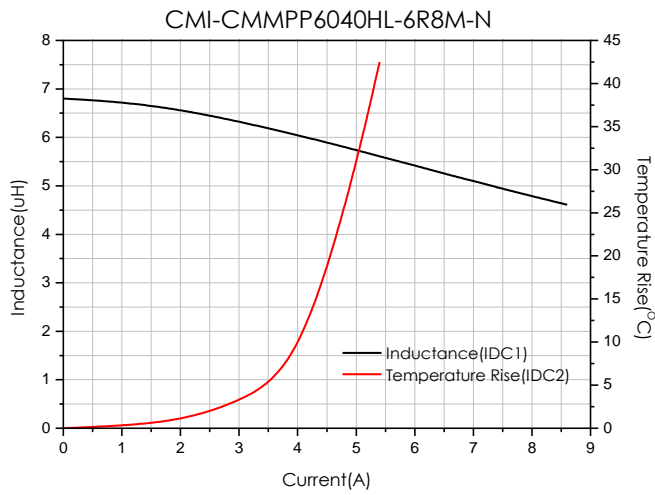
- IDC1: When based on the inductance change rate (approximately 30% below in the initial value)
- IDC2: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range(including self temperature) : -40°C ~ +165 °C

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.

## Electrical characteristics



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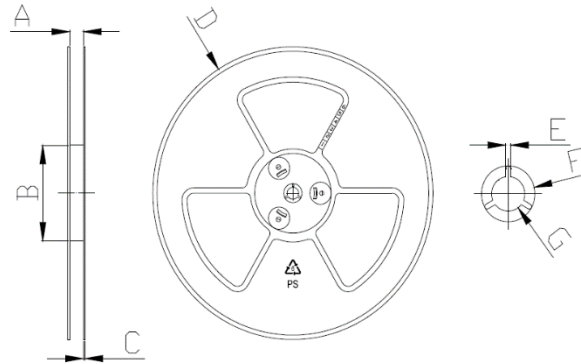


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## Packaging

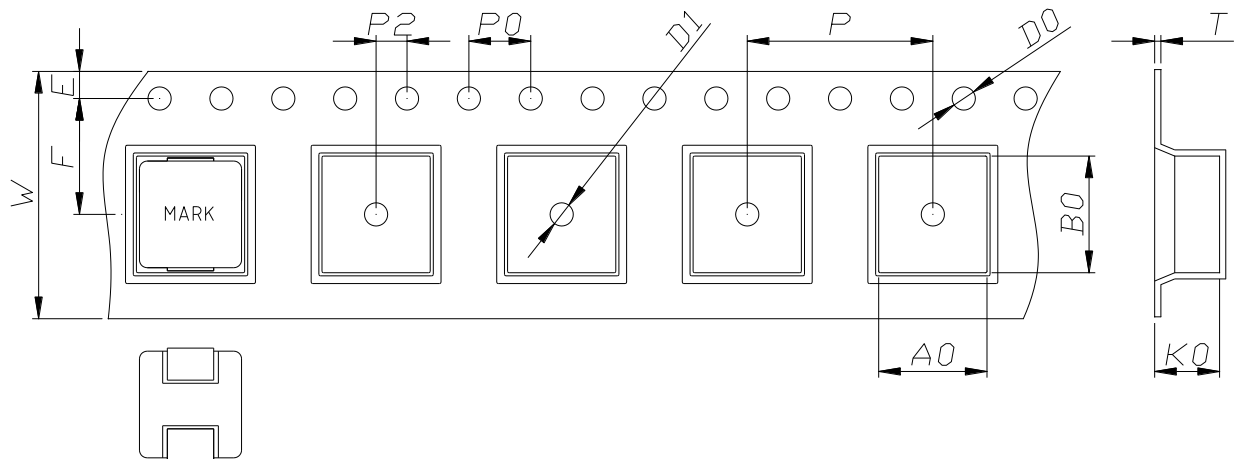
(1) Package quantity : 1,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
16.50	100.0	2.00	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.10	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.10	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
16.00	7.00	7.55	4.20	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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