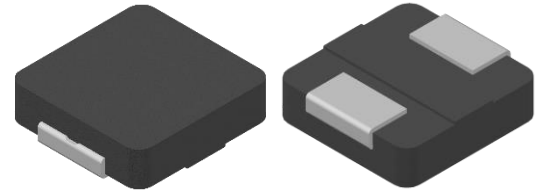


CMI-CMMPP5015HL-SERIES

Features

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

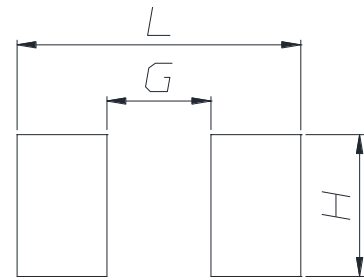
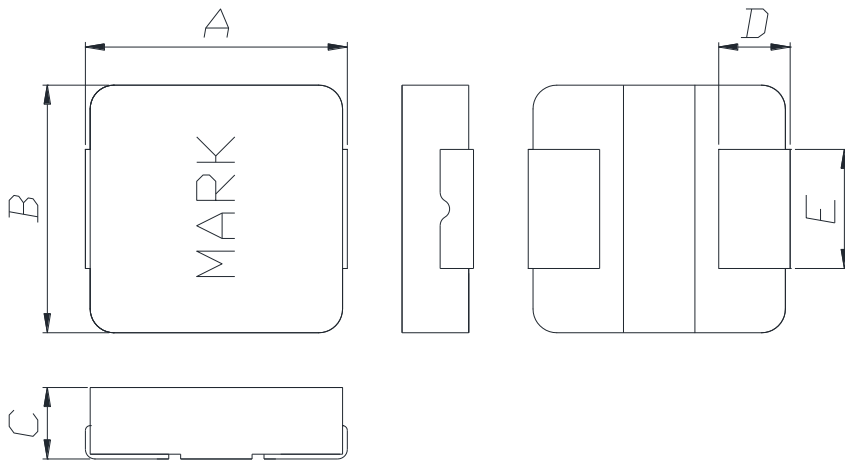


Applications

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

Dimension (Unit:mm)

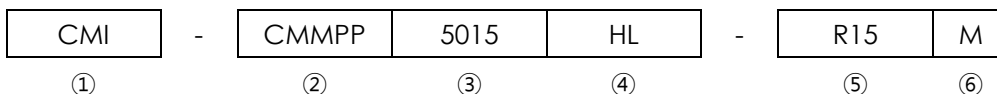
Land Pattern (Unit:mm)



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

L	G	H
6.0	2.2	3.0

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 (0.15uH)
- ⑥ Inductance tolerance (±20%)

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP5015HL-R15M	0.15	4.5(3.8)	23.0(26.0)	14.5(16.0)	1M
CMI-CMMPP5015HL-R20M	0.20	4.8(4.0)	20.0(22.5)	14.0(15.0)	1M
CMI-CMMPP5015HL-R22M	0.22	5.4(4.5)	18.5(20.5)	12.5(13.5)	1M
CMI-CMMPP5015HL-R33M	0.33	9.0(7.5)	14.5(16.5)	10.0(11.0)	1M
CMI-CMMPP5015HL-2R2M	2.2	54(45)	6.3(7.3)	4.0(4.5)	1M

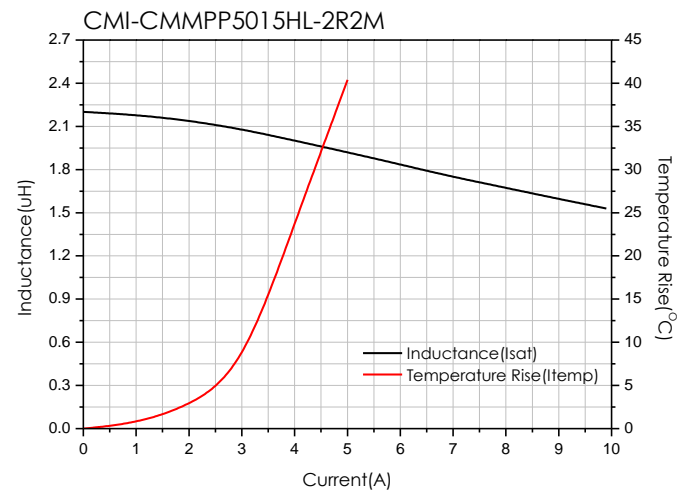
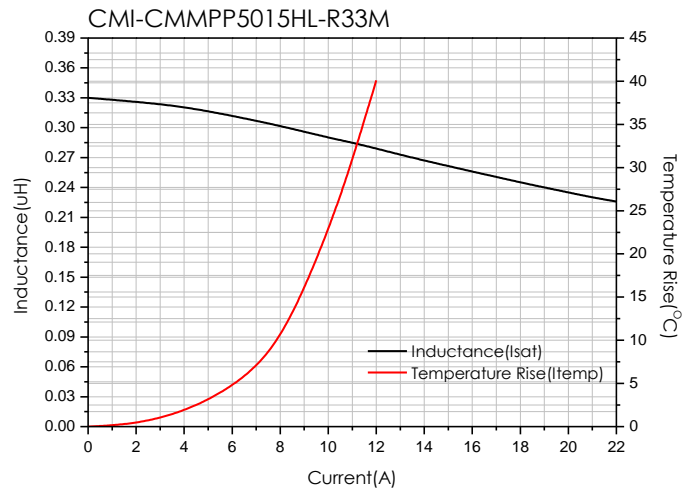
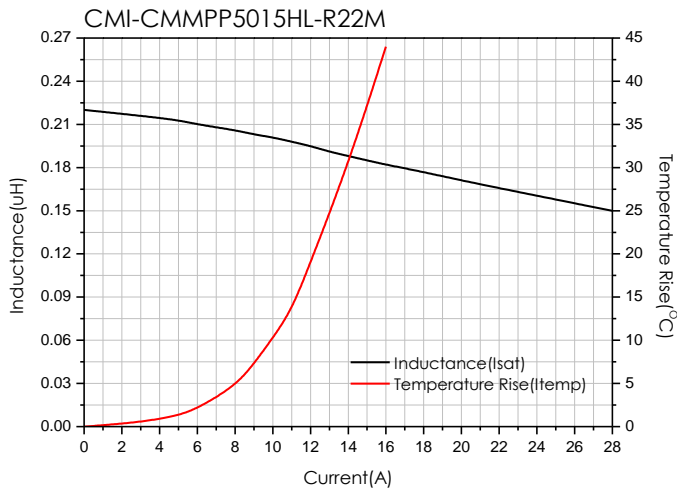
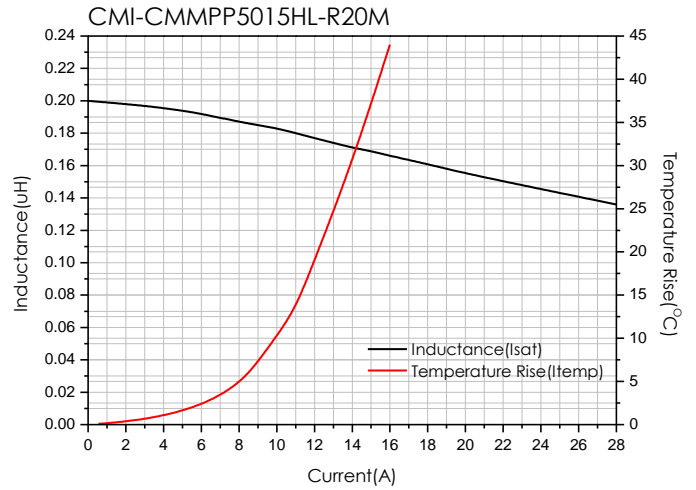
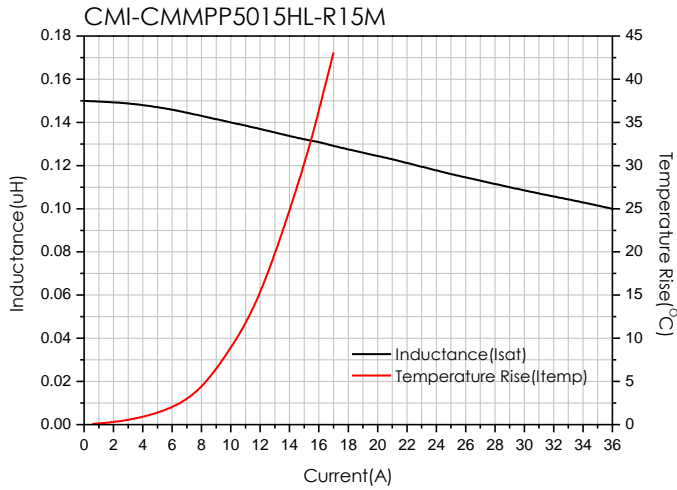
- Isat: When based on the inductance change rate (Approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range (including self temperature) : -40°C ~ +165 °c

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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- Update date : 2021.02.19

Electrical characteristics

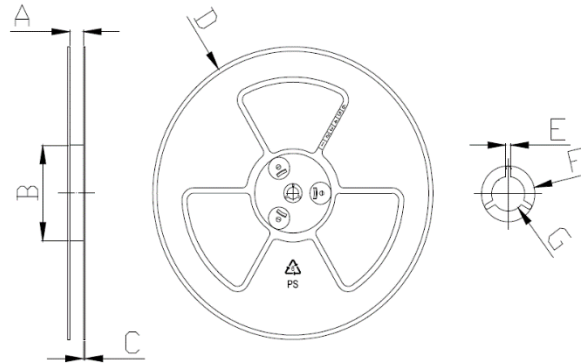


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Packaging

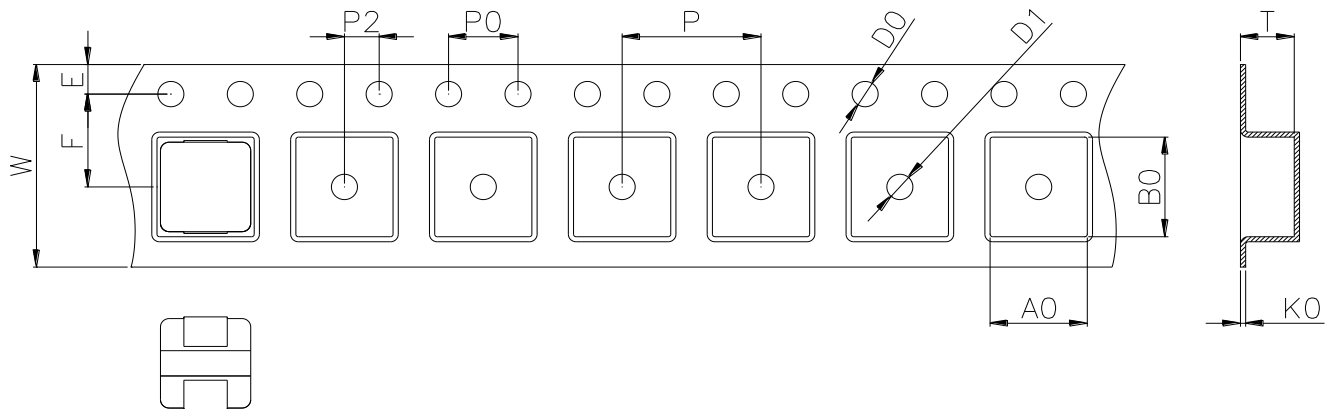
(1) Package quantity : 3,000 (pcs/reel)

(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	5.50	5.70	2.20	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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