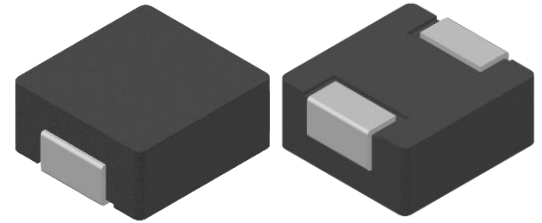


CMI-MMPP4020HL-SERIES

Features

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

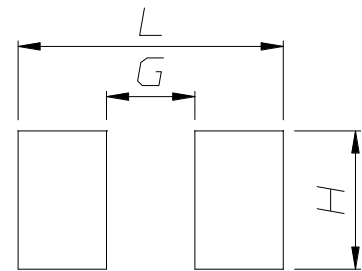
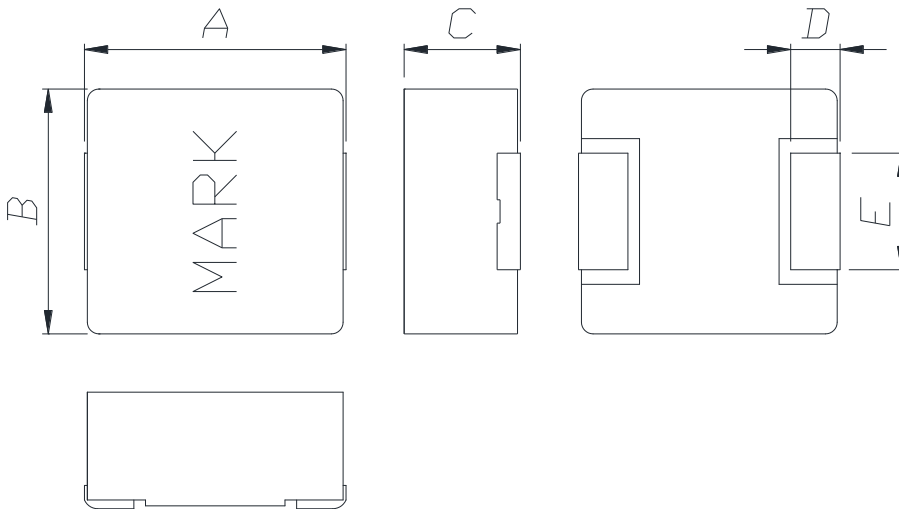


Applications

- ▶ For DC/DC converter, AV equipment digital consumer electronics

Dimension (Unit:mm)

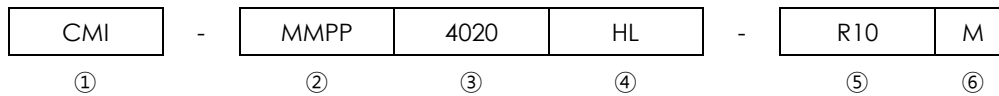
Land Pattern (Unit:mm)



A	B	C	D	E
4.4 ±0.35	4.2 ±0.25	2.0 Max.	0.8 ±0.2	2.0 ±0.2

L	G	H
4.8	1.6	2.5

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Metal Molded Pin type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.1uH)
- ⑥ Inductance tolerance ($\pm 20\%$)

Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-MMPP4020HL-R10M	0.10	3.6(3.)	25.0(30.0)	16.0(16.5)	1M
CMI-MMPP4020HL-R22M	0.22	5.4(4.5)	19.0(22.0)	14.0(15.0)	1M
CMI-MMPP4020HL-R33M	0.33	6.0(5.0)	15.5(17.5)	11.5(12.5)	1M
CMI-MMPP4020HL-R47M	0.47	17.4(14.5)	10.8(12.0)	7.5(8.0)	1M
CMI-MMPP4020HL-R68M	0.68	18.6(15.5)	10.5(11.5)	7.0(7.5)	1M
CMI-MMPP4020HL-1R0M	1.0	30(25)	10.0(11.0)	5.0(5.5)	1M
CMI-MMPP4020HL-1R5M	1.5	36(30)	7.5(8.5)	4.5(5.0)	1M
CMI-MMPP4020HL-2R2M	2.2	57.6(48)	7.0(7.5)	4.0(4.2)	1M
CMI-MMPP4020HL-3R3M	3.3	72(60)	5.0(5.5)	3.7(3.9)	1M
CMI-MMPP4020HL-4R7M	4.7	120(100)	3.2(3.4)	2.8(3.0)	1M
CMI-MMPP4020HL-6R8M	6.8	144(120)	3.0(3.2)	2.2(2.4)	1M
CMI-MMPP4020HL-8R2M	8.2	192(160)	2.9(3.1)	2.1(2.3)	1M
CMI-MMPP4020HL-100M	10	240(200)	2.8(3.0)	1.9(2.1)	1M
CMI-MMPP4020HL-150M	15	300(250)	2.5(2.8)	1.7(1.9)	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 ~ +125 °c

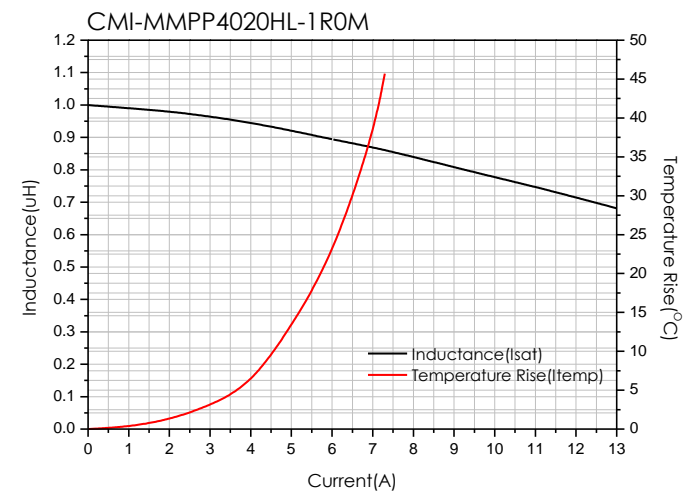
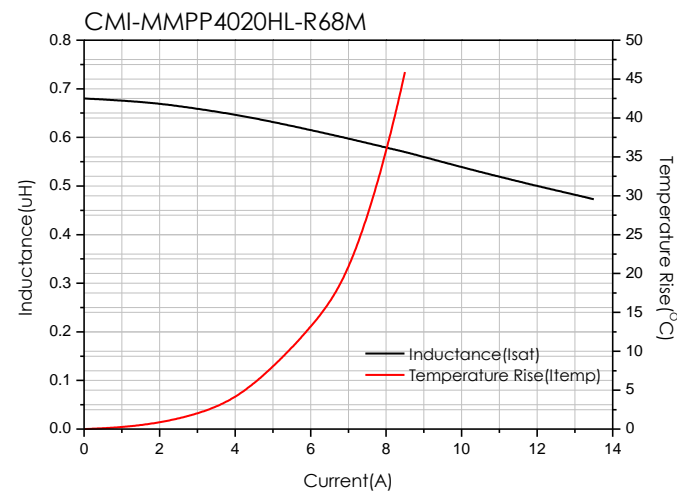
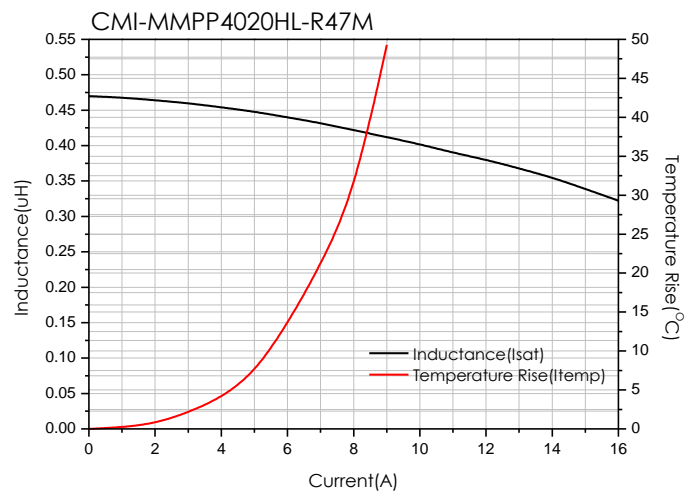
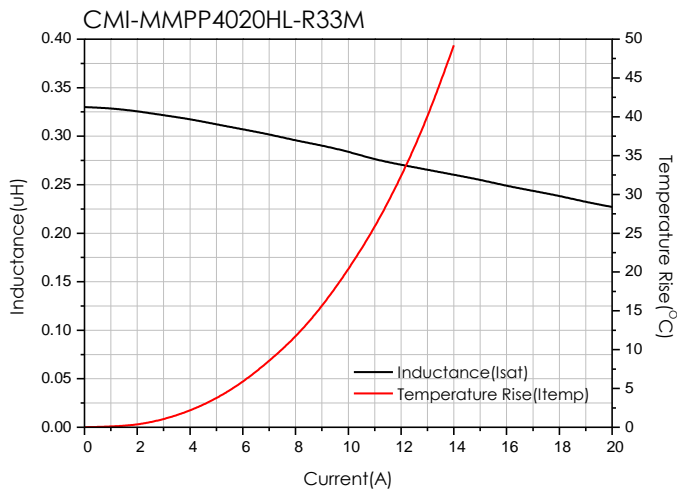
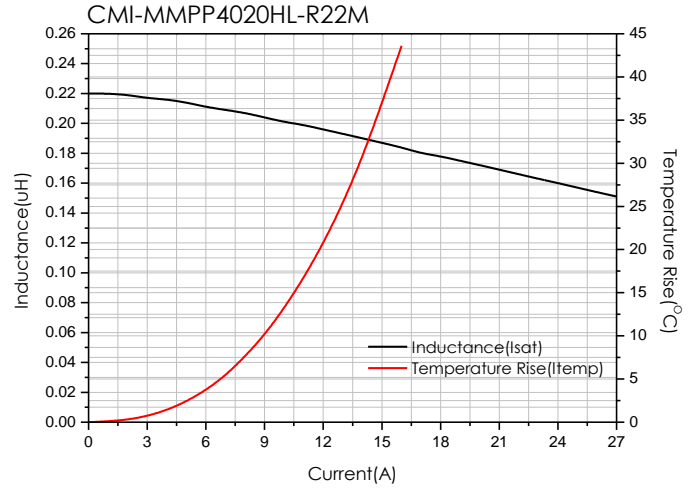
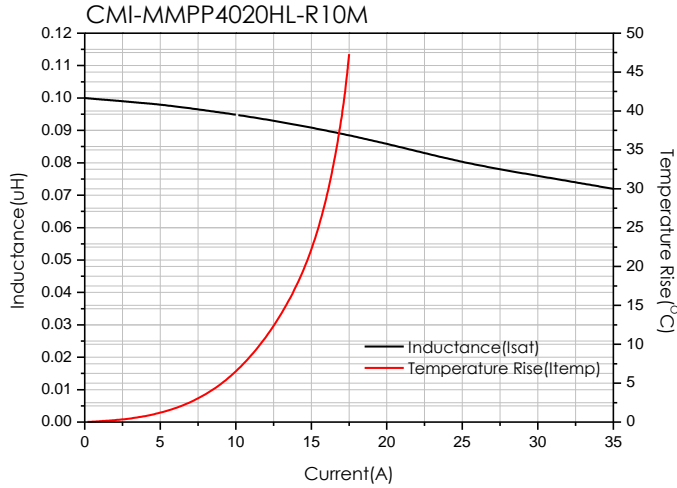
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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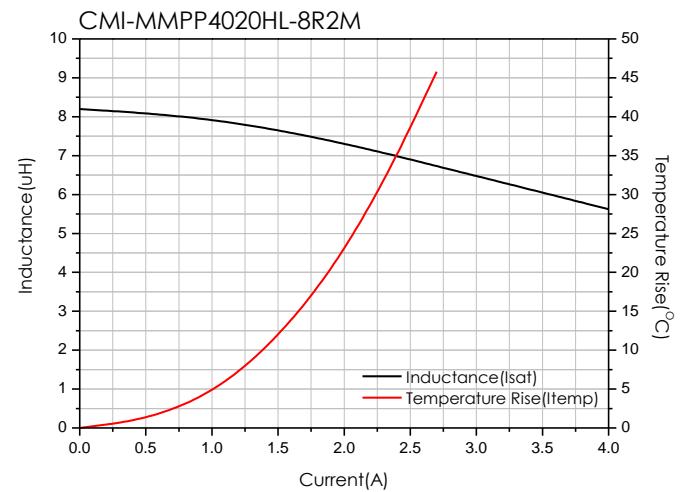
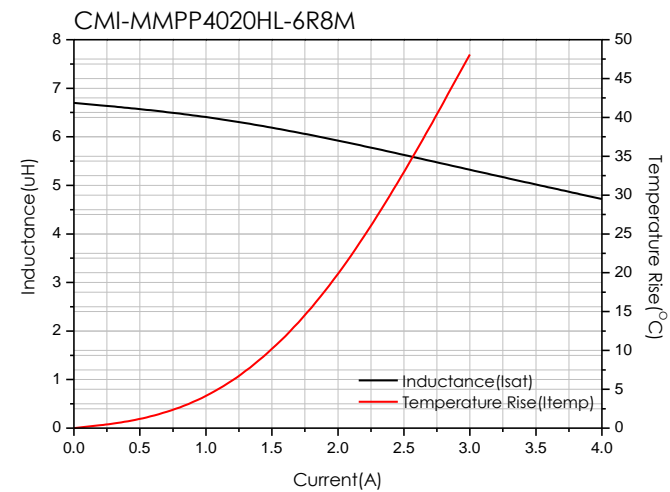
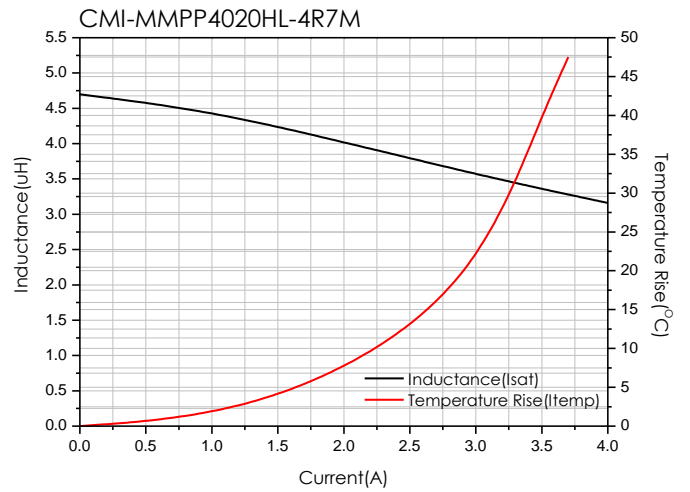
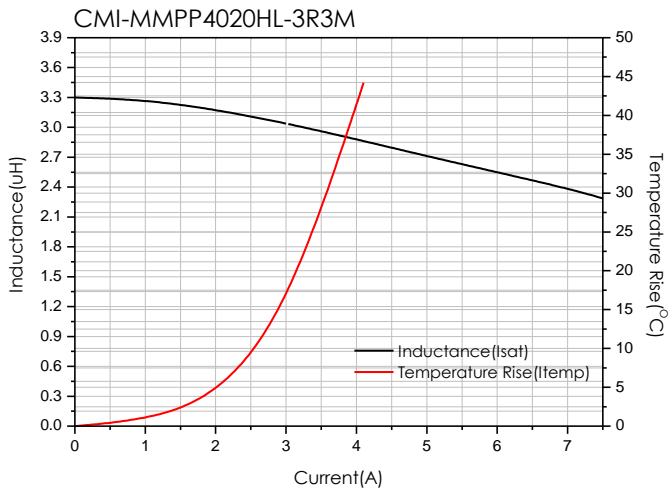
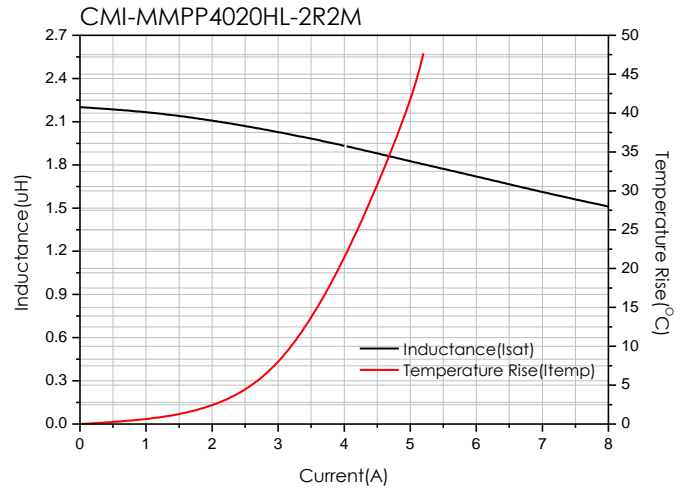
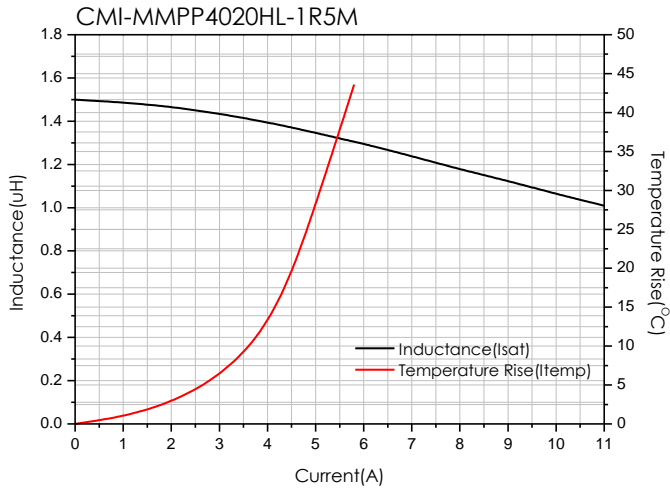
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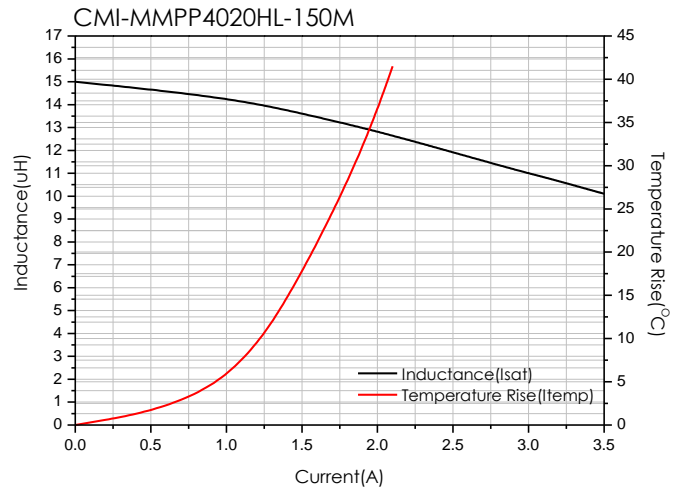
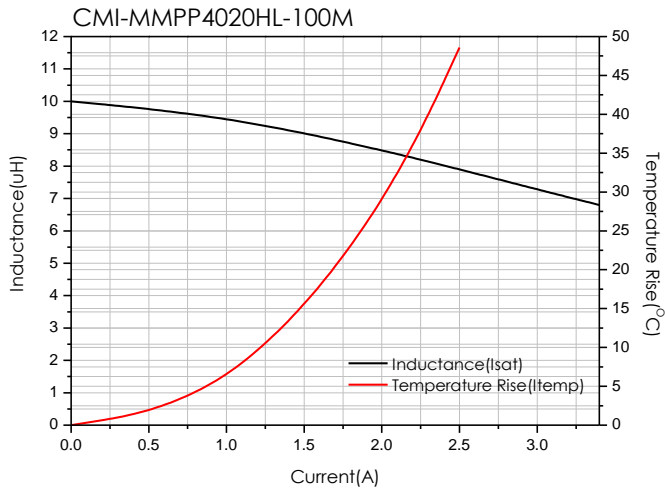
Electrical characteristics



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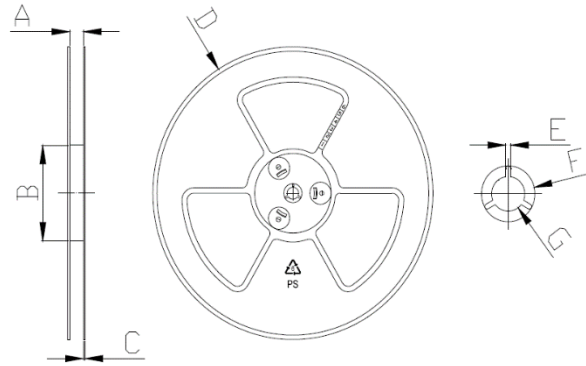


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Packaging

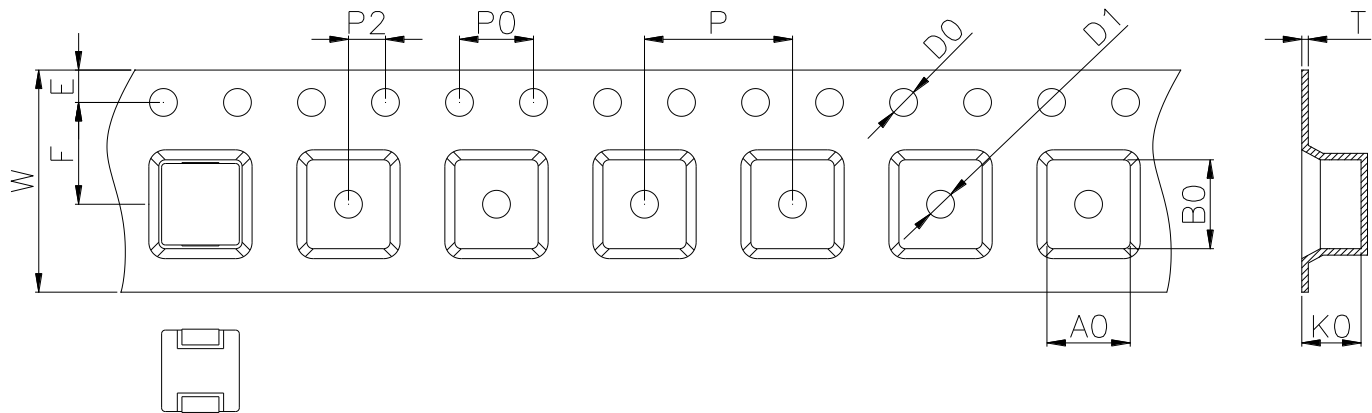
(1) Package quantity : 3,000 (pcs/reel)

(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	4.60	4.90	2.20	1.75	5.50	8.00	4.00	2.00	1.50	0.35
+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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