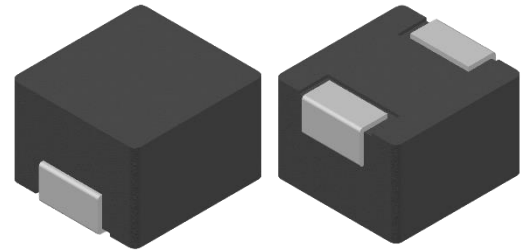


# CMI-MMPP4030HL-SERIES

## Features

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

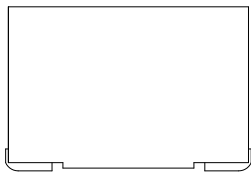
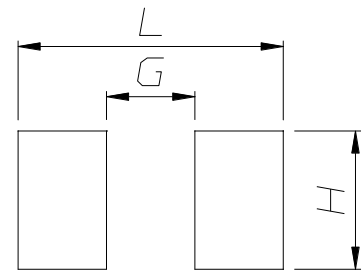
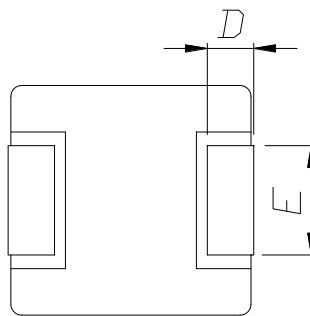
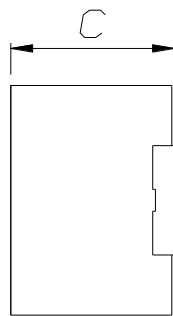
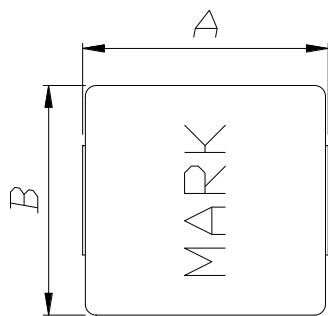


## Applications

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

## Dimension (Unit:mm)

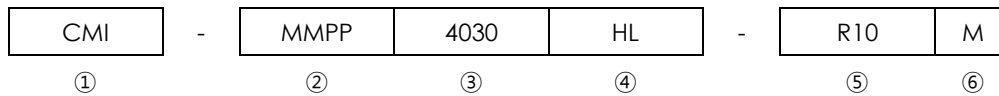
## Land Pattern (Unit:mm)



A	B	C	D	E
4.4 ±0.35	4.2 ±0.25	3.0 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-MMPP4030HL-R10M	0.10	5.4(4.5)	30.0(32.0)	14.0(15.0)	1M
CMI-MMPP4030HL-R20M	0.20	7.8(6.5)	22.0(26.0)	10.0(11.0)	1M
CMI-MMPP4030HL-R33M	0.33	9.0(7.5)	14.5(16.5)	9.5(10.5)	1M
CMI-MMPP4030HL-R47M	0.47	10.2(8.5)	12.5(13.5)	9.0(10.0)	1M
CMI-MMPP4030HL-R56M	0.56	10.8(9.0)	12.0(13.0)	8.5(9.5)	1M
CMI-MMPP4030HL-R68M	0.68	12(10)	11.5(12.5)	8.0(9.0)	1M
CMI-MMPP4030HL-R82M	0.82	14.4(12)	11.0(12.0)	7.5(8.5)	1M
CMI-MMPP4030HL-1R0M	1.0	18(15)	10.5(11.5)	7.0(7.5)	1M
CMI-MMPP4030HL-1R5M	1.5	24(20)	7.0(8.0)	6.5(7.0)	1M
CMI-MMPP4030HL-1R8M	1.8	28.8(24)	6.5(7.3)	5.8(6.5)	1M
CMI-MMPP4030HL-2R2M	2.2	30(25)	6.3(7.0)	5.7(6.4)	1M
CMI-MMPP4030HL-3R3M	3.3	50(42)	6.1(6.8)	4.0(4.6)	1M
CMI-MMPP4030HL-4R7M	4.7	60(50)	5.8(6.3)	3.2(3.6)	1M
CMI-MMPP4030HL-6R8M	6.8	84(70)	3.7(4.0)	2.7(3.0)	1M
CMI-MMPP4030HL-100M	10	154(128)	3.3(3.7)	2.2(2.5)	1M
CMI-MMPP4030HL-150M	15	222(185)	2.6(3.0)	2.1(2.3)	1M
CMI-MMPP4030HL-220M	22	264(220)	2.2(2.6)	2.0(2.2)	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

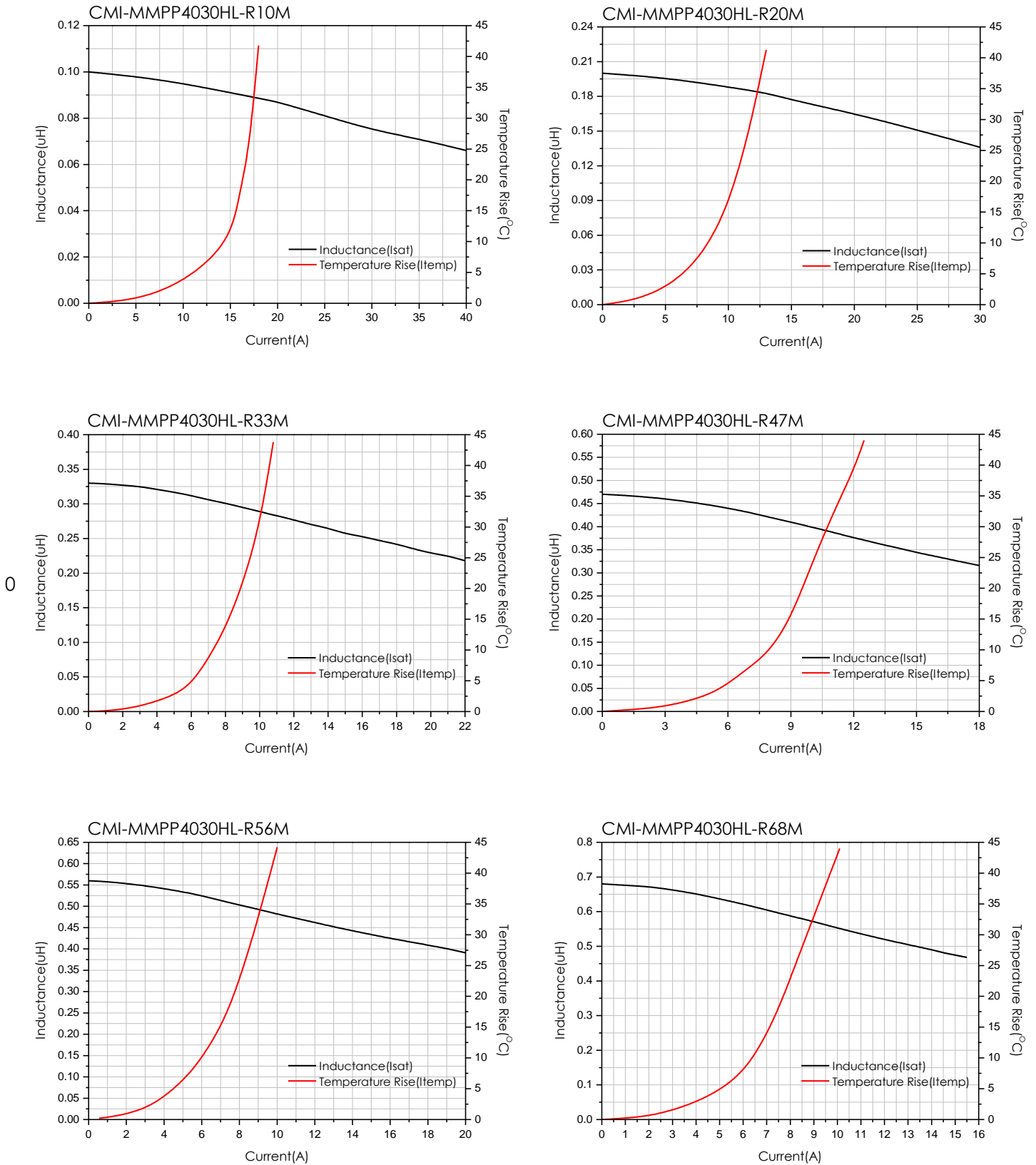
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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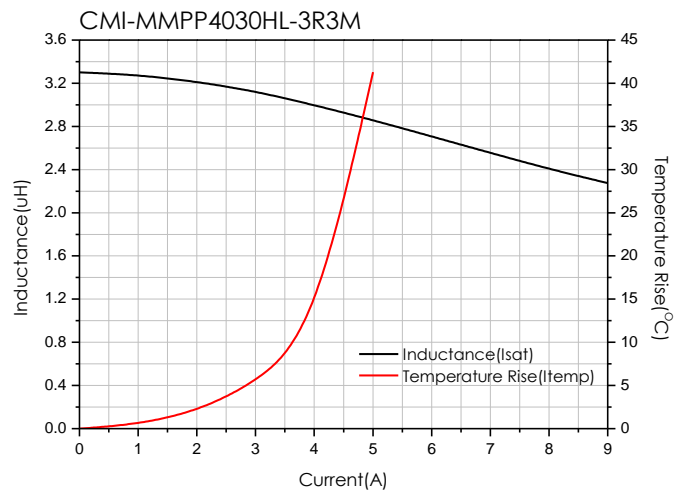
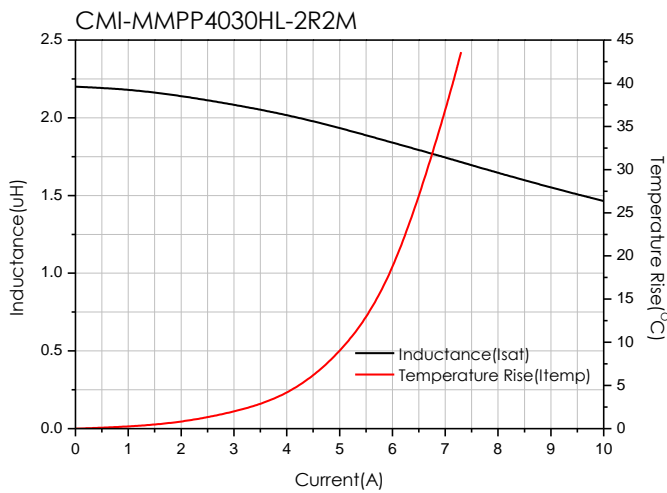
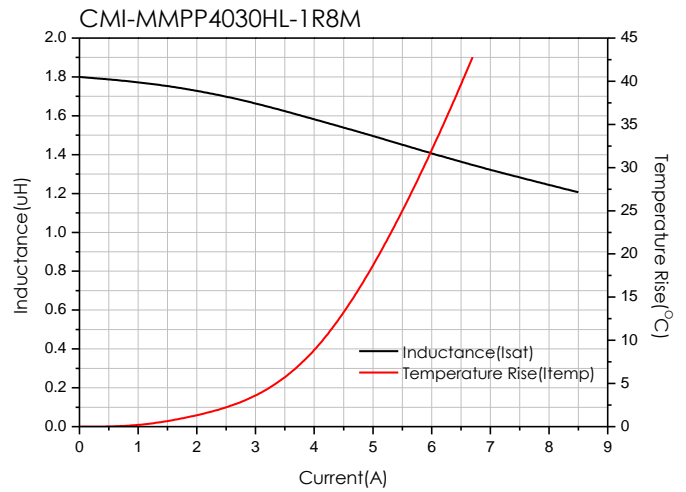
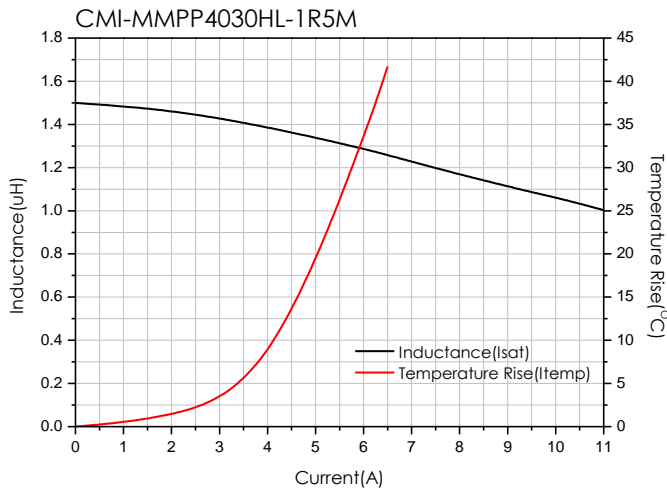
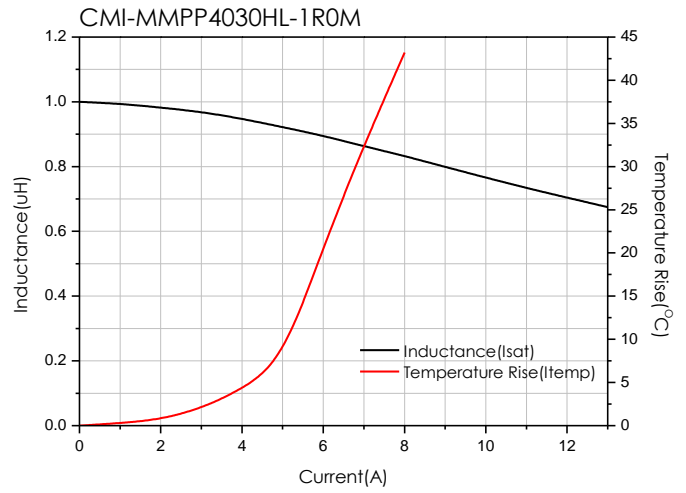
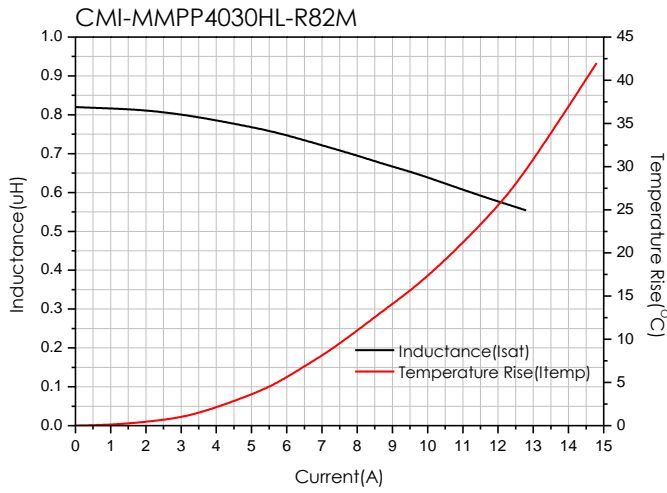
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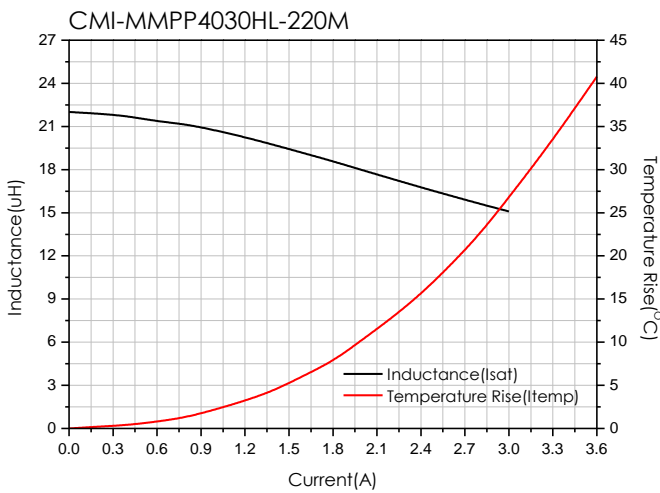
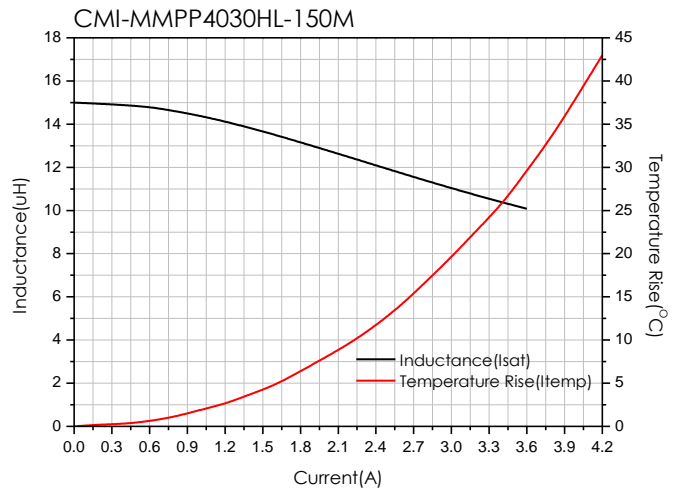
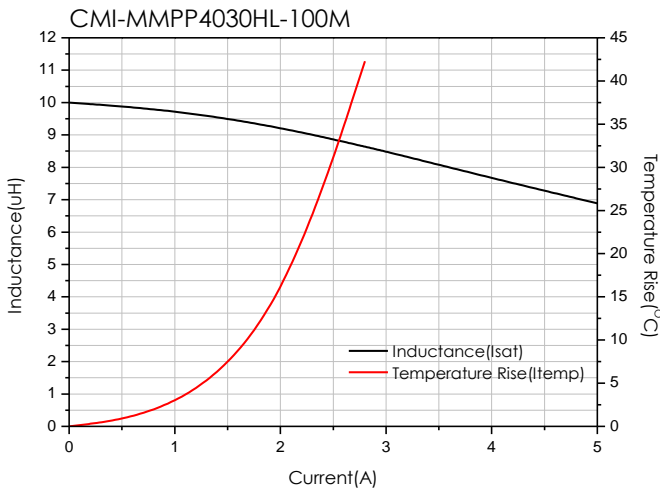
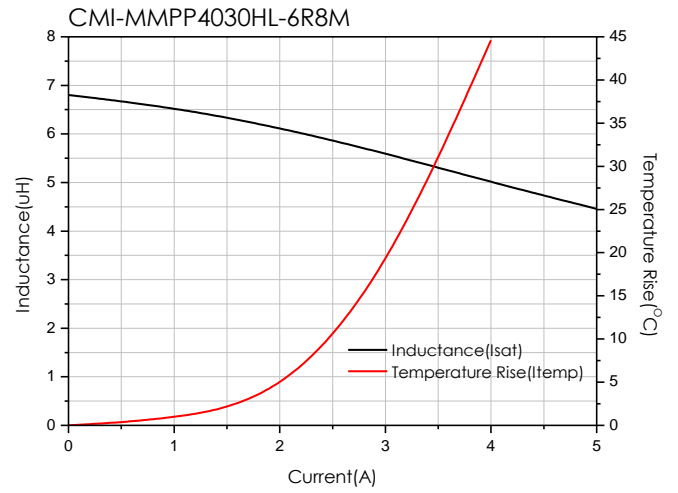
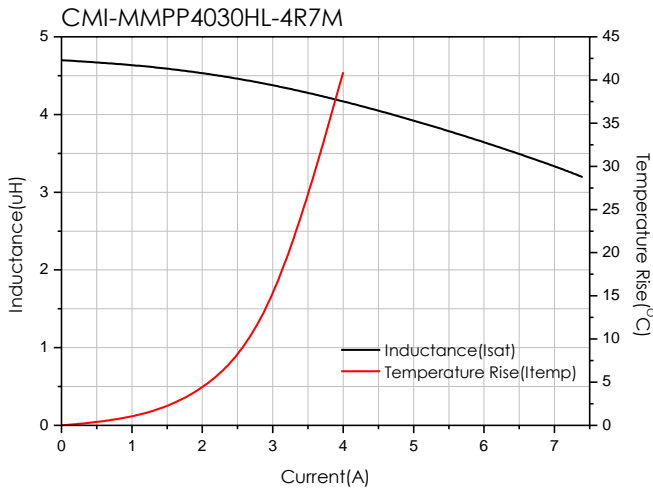
## Electrical characteristics



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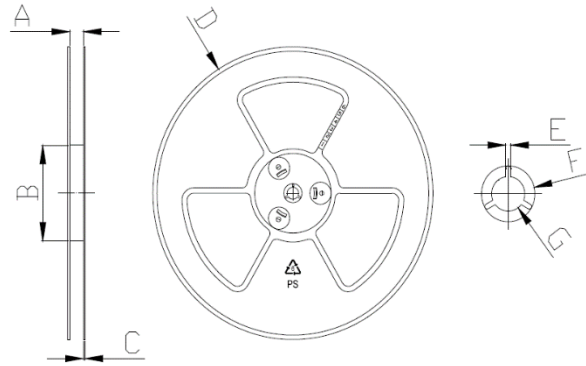


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## Packaging

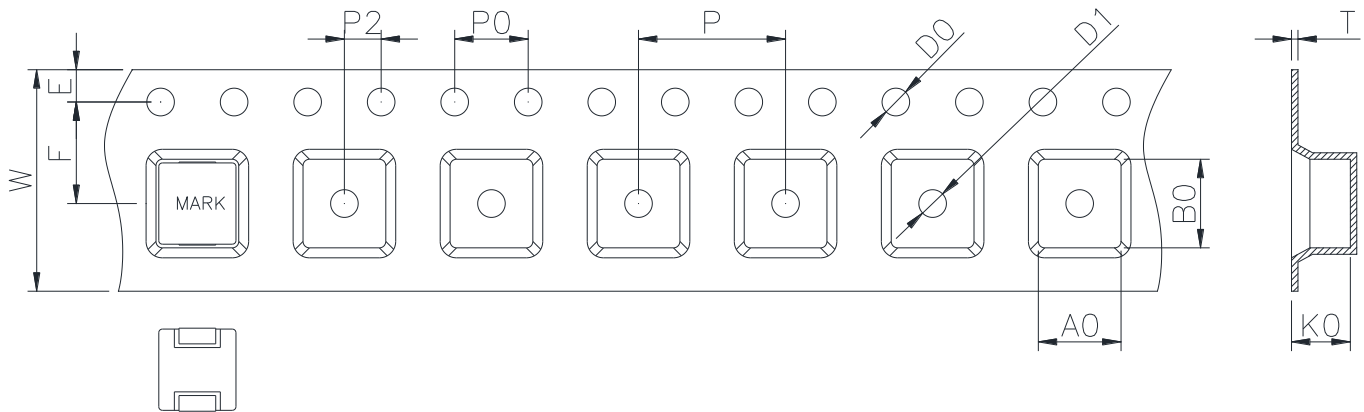
(1) Package quantity : 2,000 (pcs/reel)

(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	4.50	4.80	3.20	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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