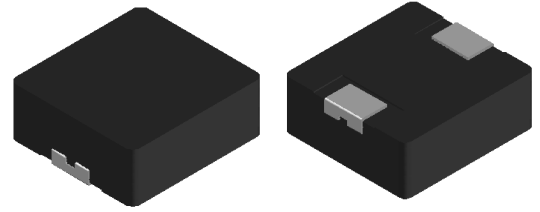


CMI-CMMPP10040LL-SERIES

Features

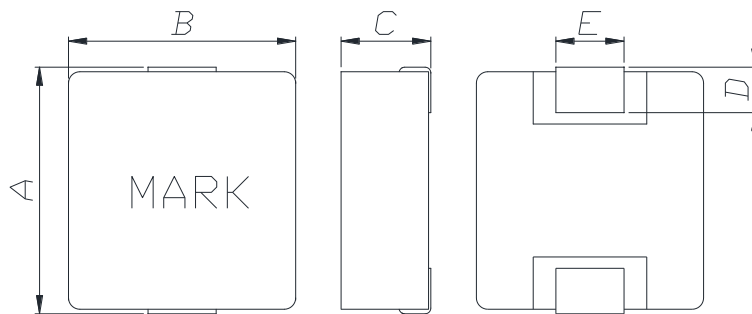
- ▶ High current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

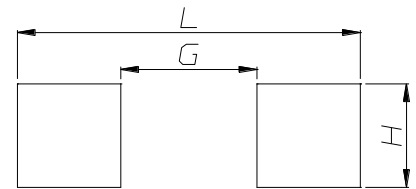
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

Dimension (Unit:mm)



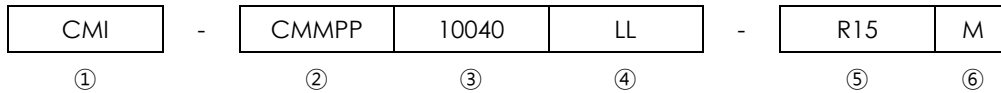
A	B	C	D	E
10.85±0.5	10.0±0.4	4.0 Max	2.0±0.3	3.0±0.2

Land Pattern (Unit:mm)



L	G	H
13.6	5.4	4.1

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%)

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Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPP10040LL-R15M	0.15	0.6(0.5)	75.00(80.00)	33.00(34.00)	1M
CMI-CMMPP10040LL-R36M	0.36	1.8(1.5)	52.00(55.00)	29.00(30.00)	1M
CMI-CMMPP10040LL-R68M	0.68	2.2(1.8)	40.00(46.00)	23.50(24.50)	1M
CMI-CMMPP10040LL-R82M	0.82	3.4(2.8)	30.00(34.00)	23.00(24.00)	1M
CMI-CMMPP10040LL-1R0M	1.0	3.7(3.1)	27.00(30.00)	19.00(20.00)	1M
CMI-CMMPP10040LL-1R5M	1.5	7.2(6.0)	24.00(26.00)	15.00(16.00)	1M
CMI-CMMPP10040LL-1R8M	1.8	8.4(7.0)	21.00(23.00)	14.50(15.00)	1M
CMI-CMMPP10040LL-2R2M	2.2	9.6(8.0)	20.00(22.00)	12.60(14.00)	1M
CMI-CMMPP10040LL-3R3M	3.3	12.6(10.5)	17.00(19.00)	11.50(12.00)	1M
CMI-CMMPP10040LL-4R7M	4.7	16.2(13.5)	15.00(17.00)	10.50(11.00)	1M
CMI-CMMPP10040LL-5R6M	5.6	19.0(16.0)	12.00(14.00)	10.00(10.50)	1M
CMI-CMMPP10040LL-6R8M	6.8	21.6(18.0)	10.00(11.00)	8.50(9.00)	1M
CMI-CMMPP10040LL-100M	10	31.2(26.0)	9.50(10.50)	6.50(7.00)	1M
CMI-CMMPP10040LL-150M	15	48.0(40.0)	9.00(10.00)	6.00(6.50)	1M
CMI-CMMPP10040LL-220M	22	60.0(50.0)	7.00(7.70)	6.10(6.80)	1M
CMI-CMMPP10040LL-270M	27	84.0(70.0)	5.50(6.00)	5.00(5.50)	1M
CMI-CMMPP10040LL-330M	33	103(86.0)	4.80(5.30)	4.40(4.90)	1M
CMI-CMMPP10040LL-470M	47	150(125)	4.20(4.70)	3.70(4.00)	1M
CMI-CMMPP10040LL-560M	56	240(200)	4.00(4.50)	3.50(3.80)	1M

- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- Irms: 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

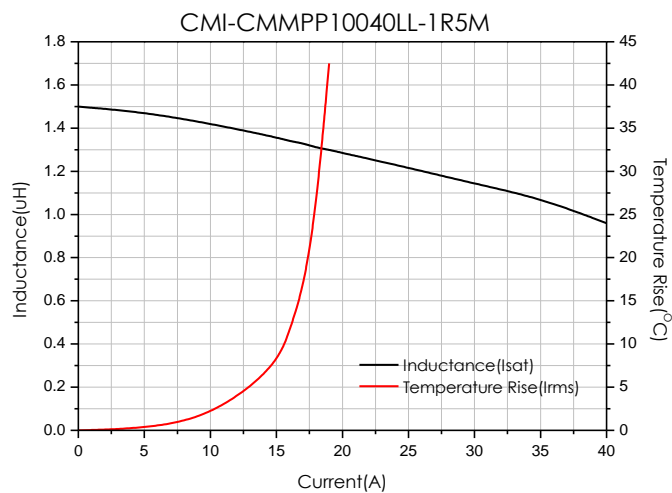
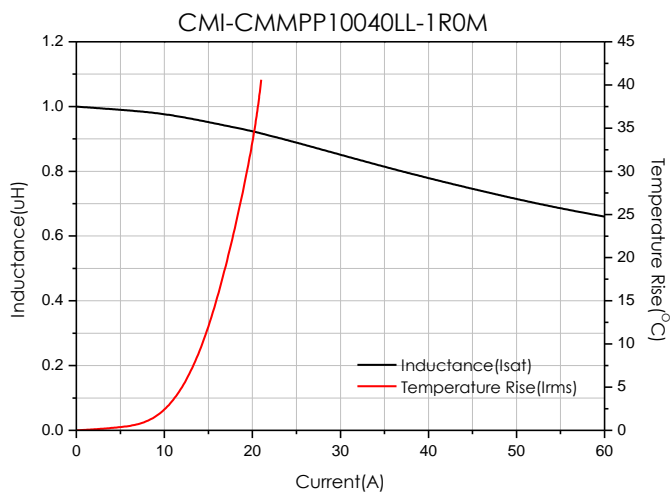
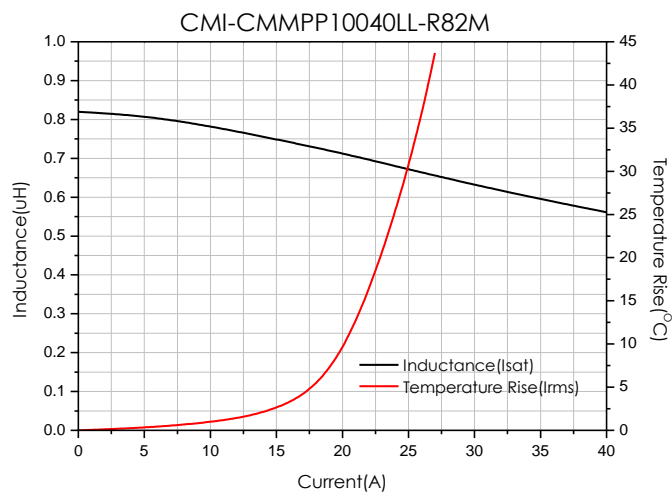
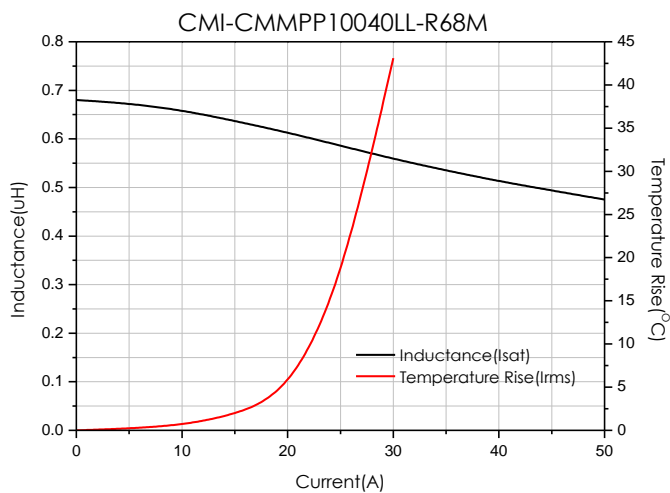
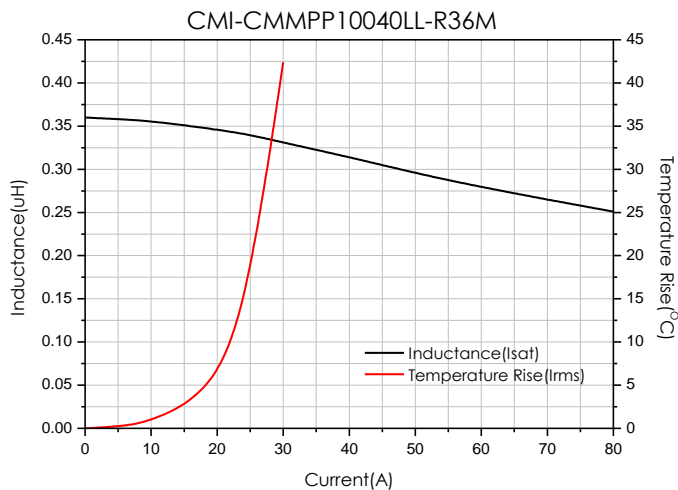
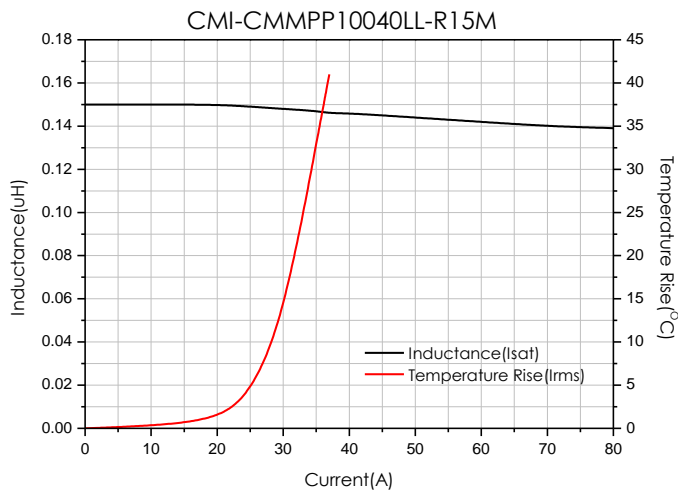
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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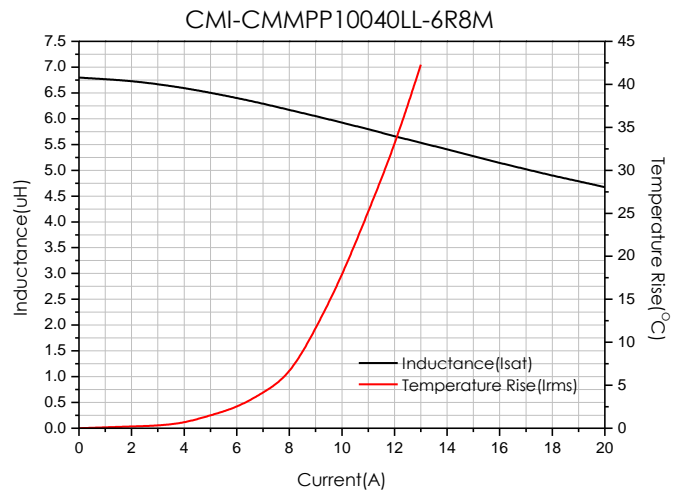
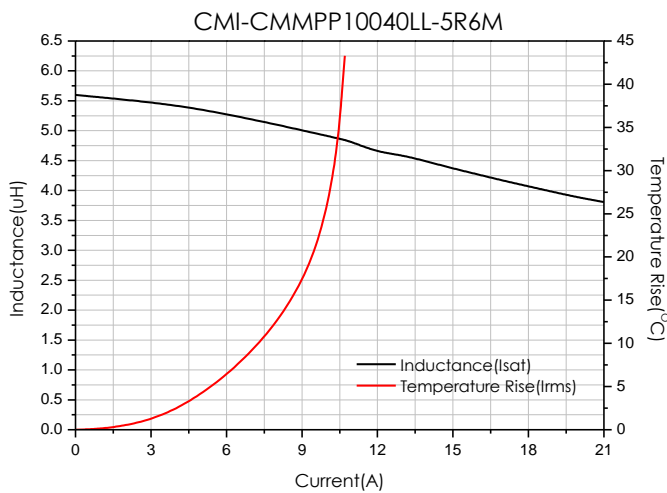
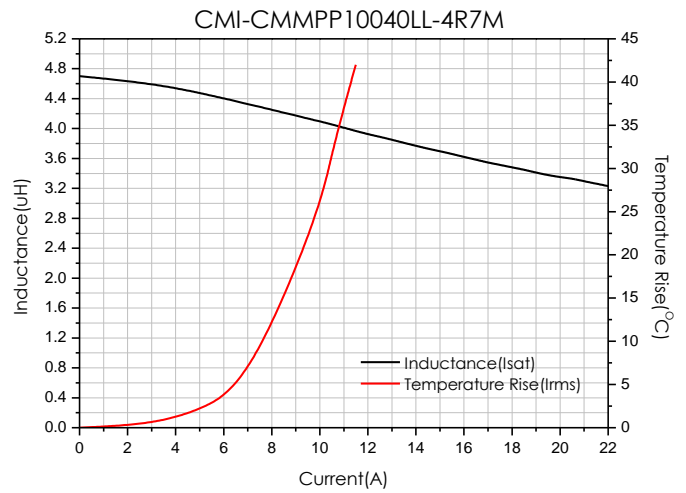
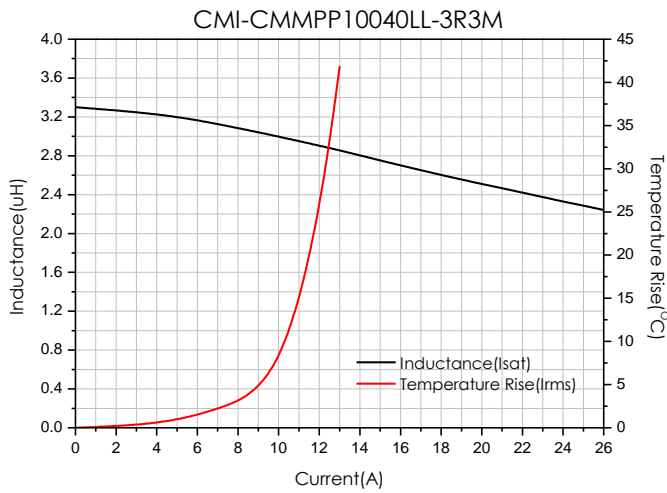
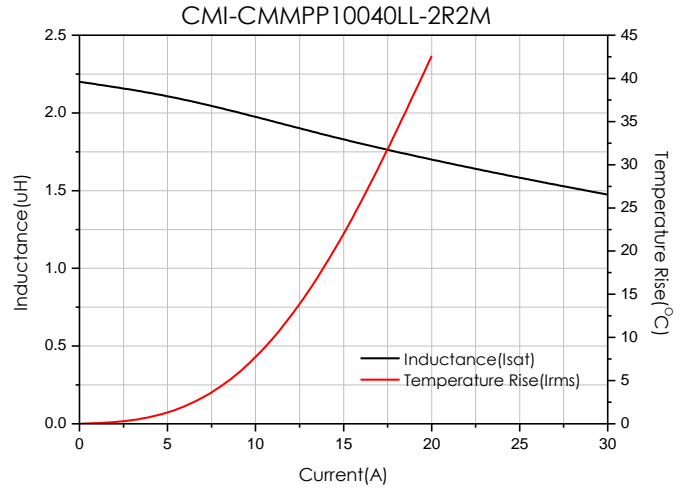
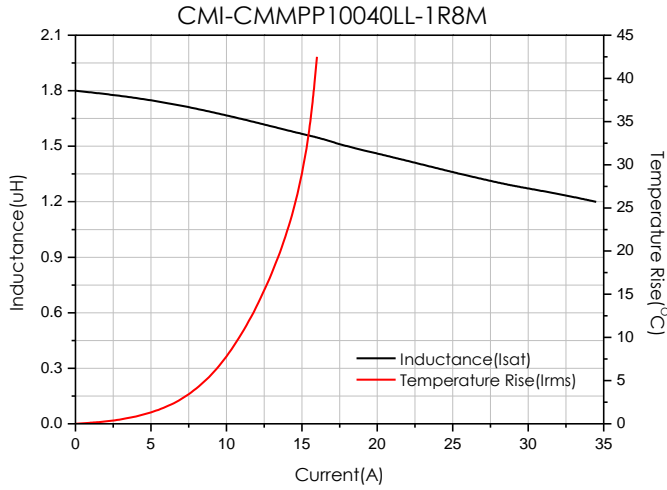
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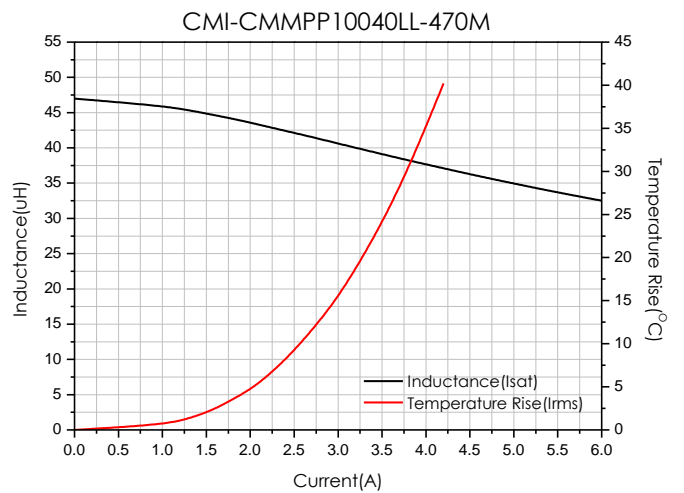
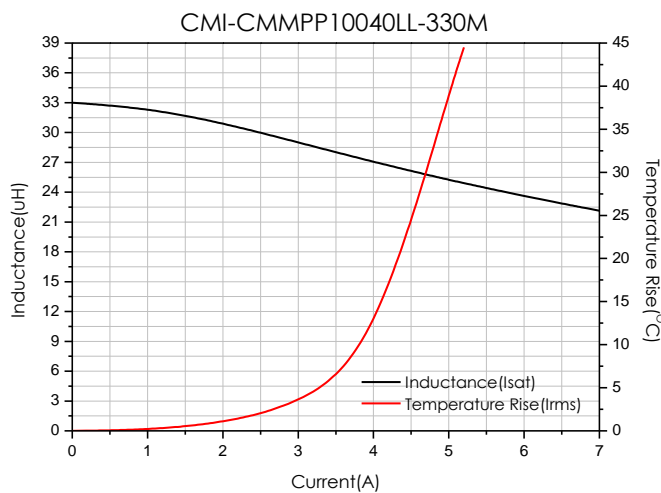
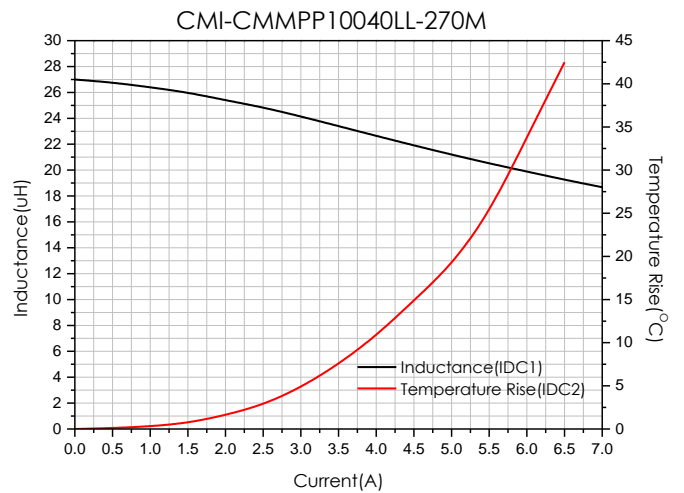
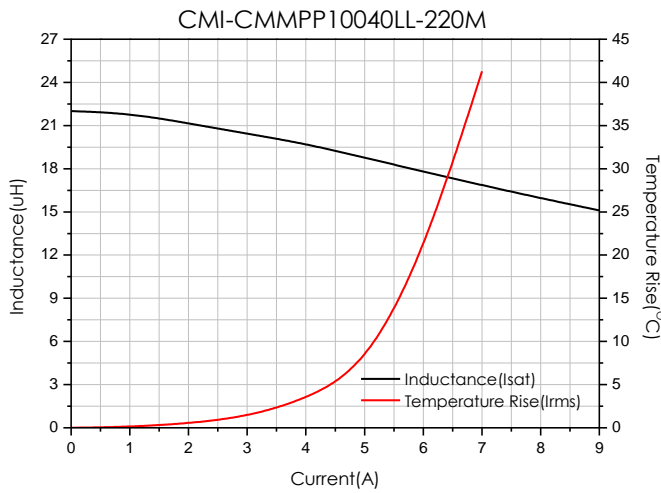
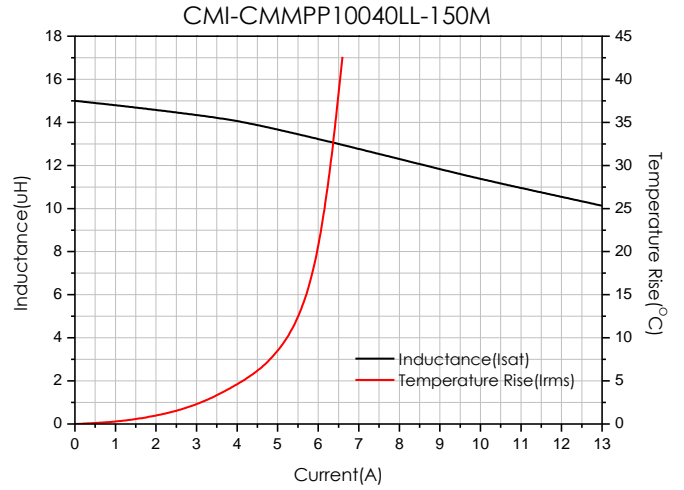
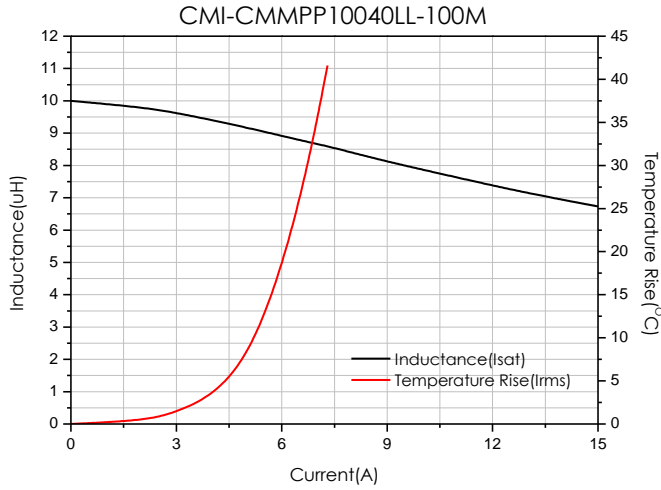
Electrical characteristics



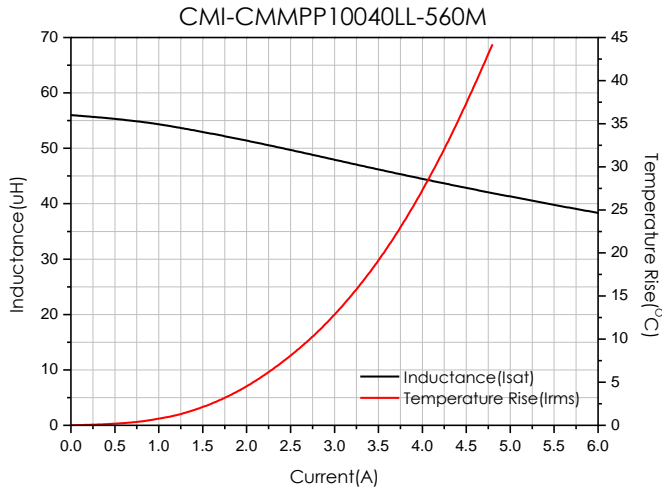
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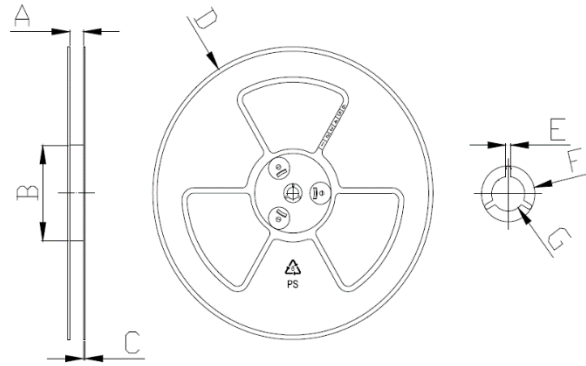


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Packaging

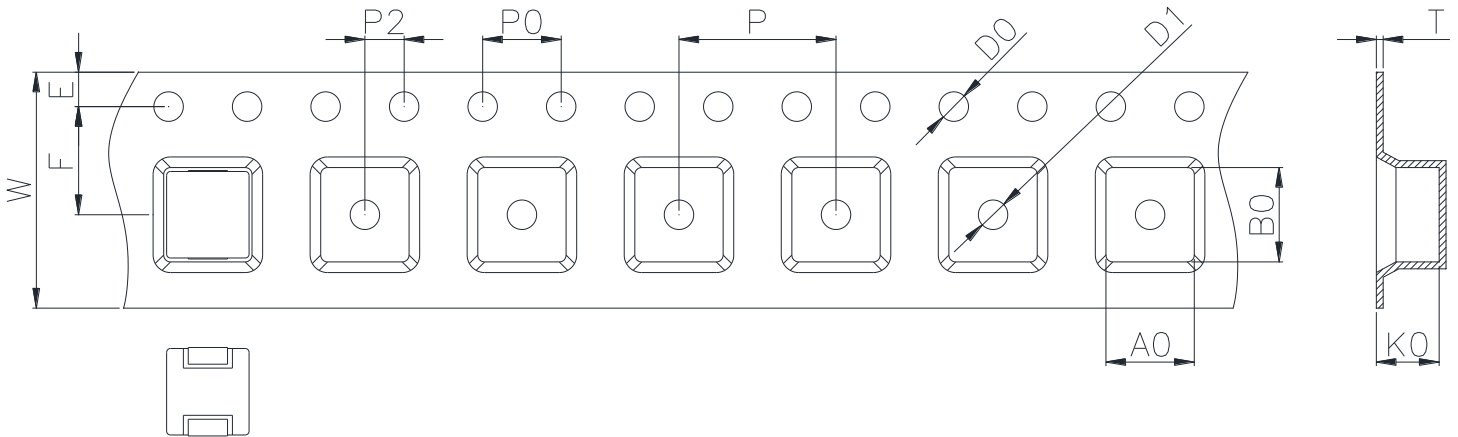
(1) Package quantity : 800 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
24.50	100.0	2.30	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.20	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.20	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
24.00	10.50	11.40	4.30	1.75	11.50	16.00	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
-0.30	-0.10	-0.00	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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