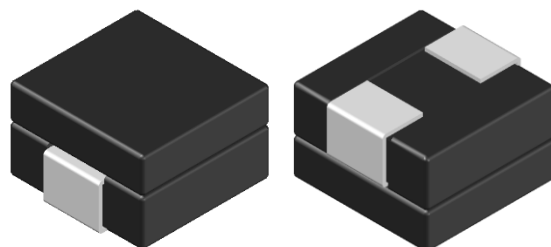


CMI-CMPLD8050M1-SERIES

Features

- ▶ High current and Low DCR
- ▶ Ferrite core type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant.
- ▶ Halogen-Free
- ▶ AEC-Q200 qualified.

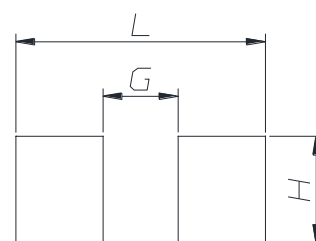
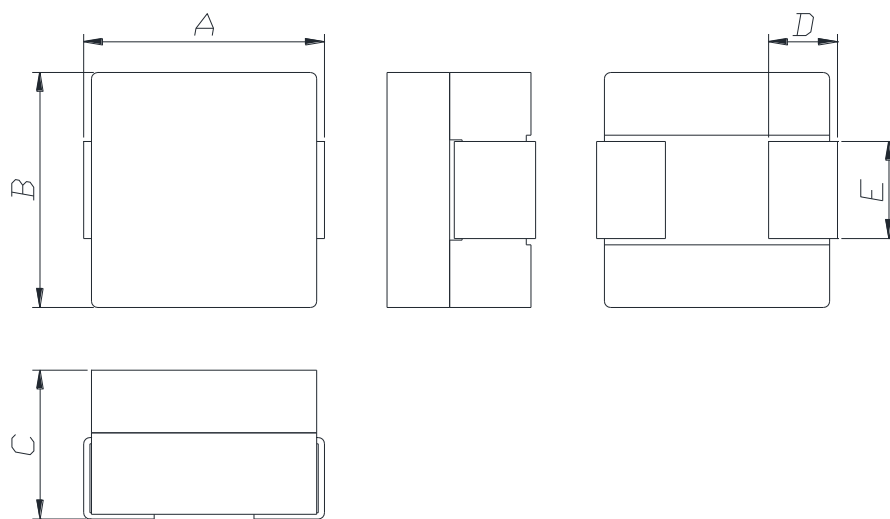


Applications

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

Dimension (Unit:mm)

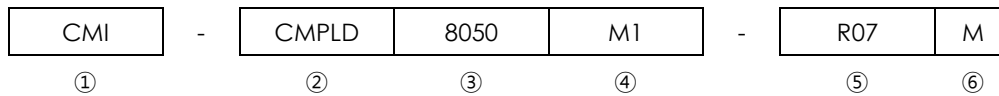
Land Pattern (Unit:mm)



A	B	C	D	E
7.5±0.5	7.3±0.4	4.96 Max	2.2±0.2	3.2±0.2

L	G	H
7.98	2.40	3.43

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Magnetic Pin Low Dcr power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.07uH)
- 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-CMPLD8050M1-R07M	0.07	0.3(0.2)	80.0(90.0)	60.0(70.0)	100k
CMI-CMPLD8050M1-R10M	0.10	0.3(0.2)	55.0(65.0)	60.0(70.0)	100k
CMI-CMPLD8050M1-R22M	0.22	0.3(0.2)	20.0(25.0)	60.0(70.0)	100k
CMI-CMPLD8050M1-R30M	0.30	0.3(0.2)	16.0(18.0)	60.0(70.0)	100k

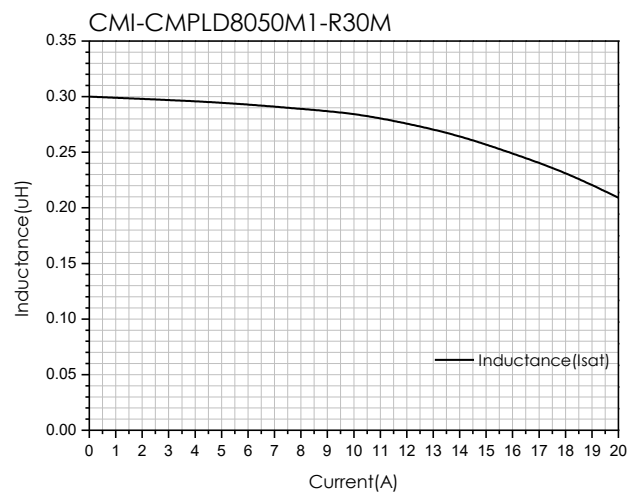
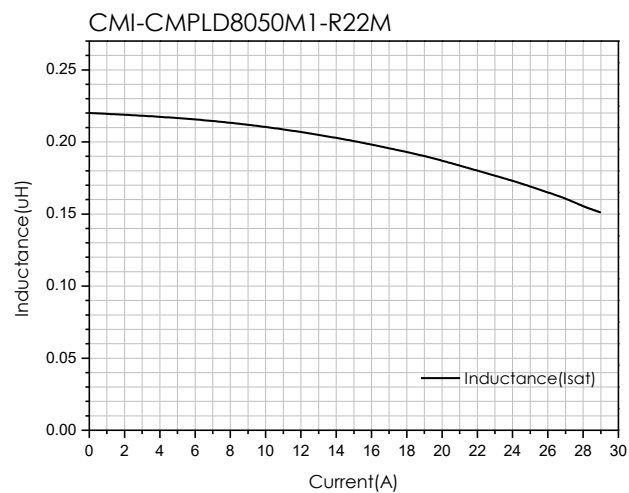
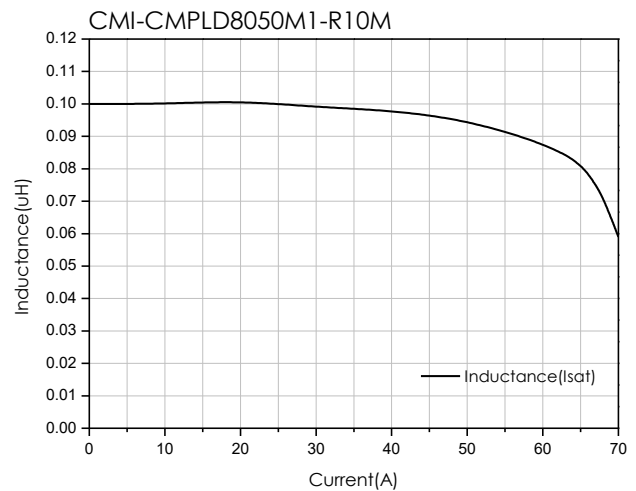
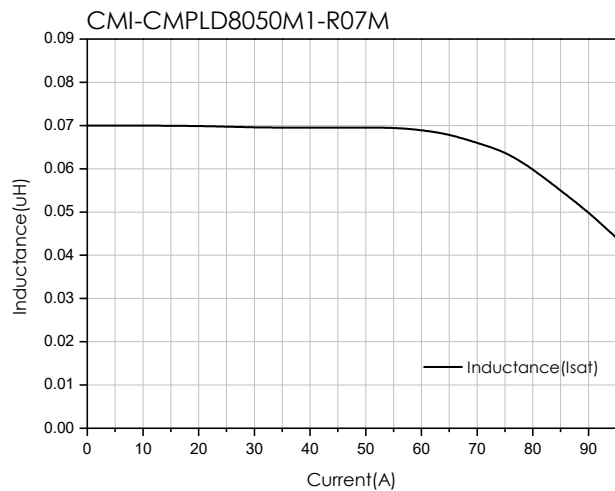
- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range(including self temperature) : -40°C ~ +165 °c

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.

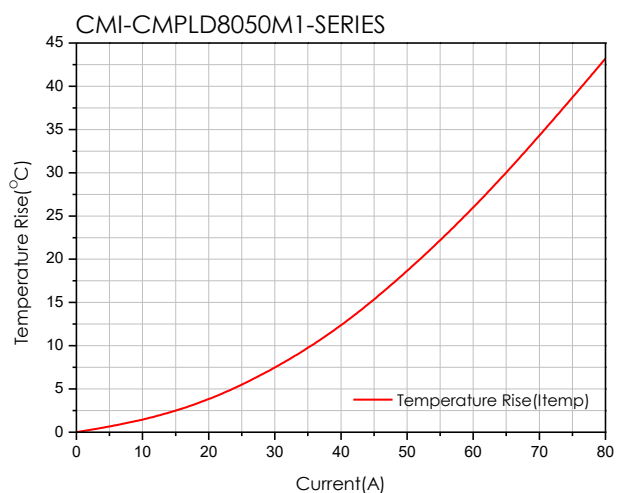
- **You can also contact us by e-mail : coilmaster@coilmaster.com**
- All specifications are subject to change without notice.
- Update date : 2025.12.06 (Rev.1.0)

Electrical characteristics

< Isat >



< Itemp >

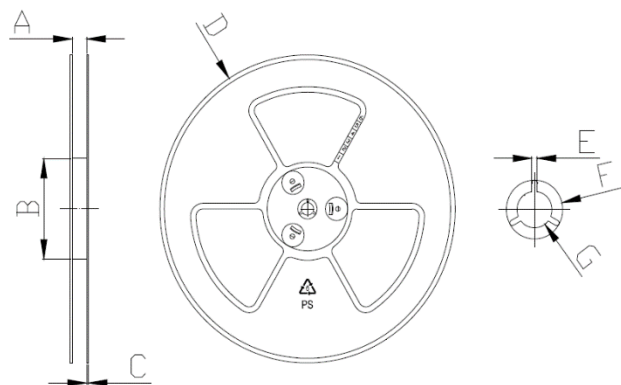


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Packaging

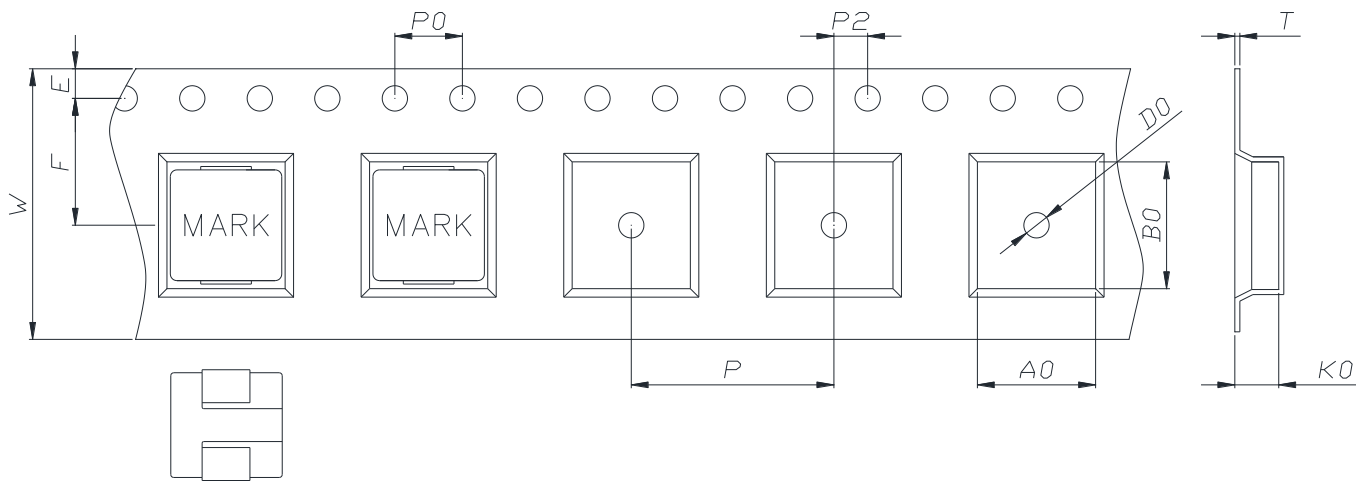
(1) Package quantity : 800 (pcs/reel)

(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	T
16.00	7.90	8.10	5.40	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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