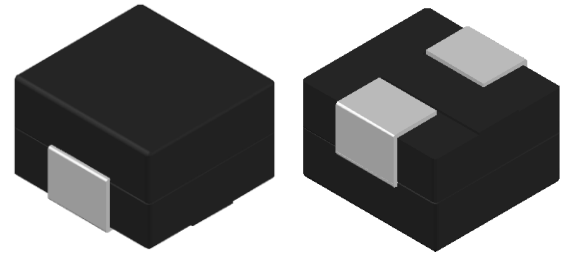




CMI-MPLD8050M1-R10K

Features

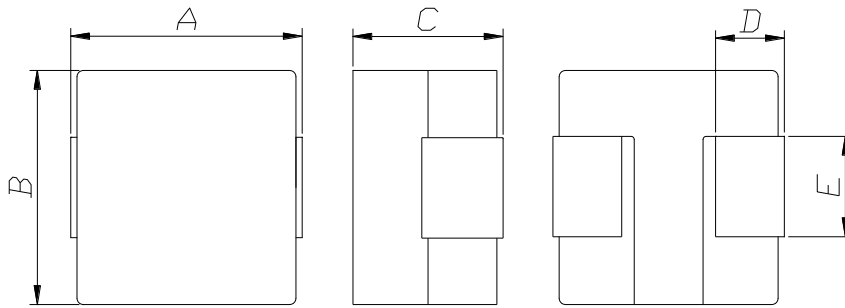
- ▶ High current and Low DCR
- ▶ Ferrite core type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant.
- ▶ Halogen-Free



Applications

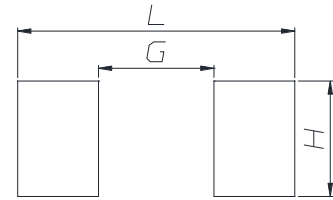
- ▶ Optimized for 5G network and VRM

Dimension (Unit:mm)



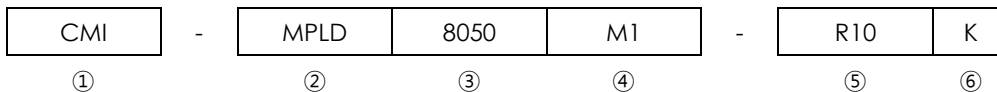
A	B	C	D	E
7.5±0.5	7.3±0.4	4.96 Max	2.2±0.2	3.2±0.2

Land Pattern (Unit:mm)



L	G	H
7.98	2.40	3.43

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Molded Pin Low Dcr Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.1uH)
- ⑥ Inductance tolerance (±10%)

• You can also contact us by e-mail : coilmaster@coilmaster.com
 • All specifications are subject to change without notice.
 • Update date : 2022.01.17

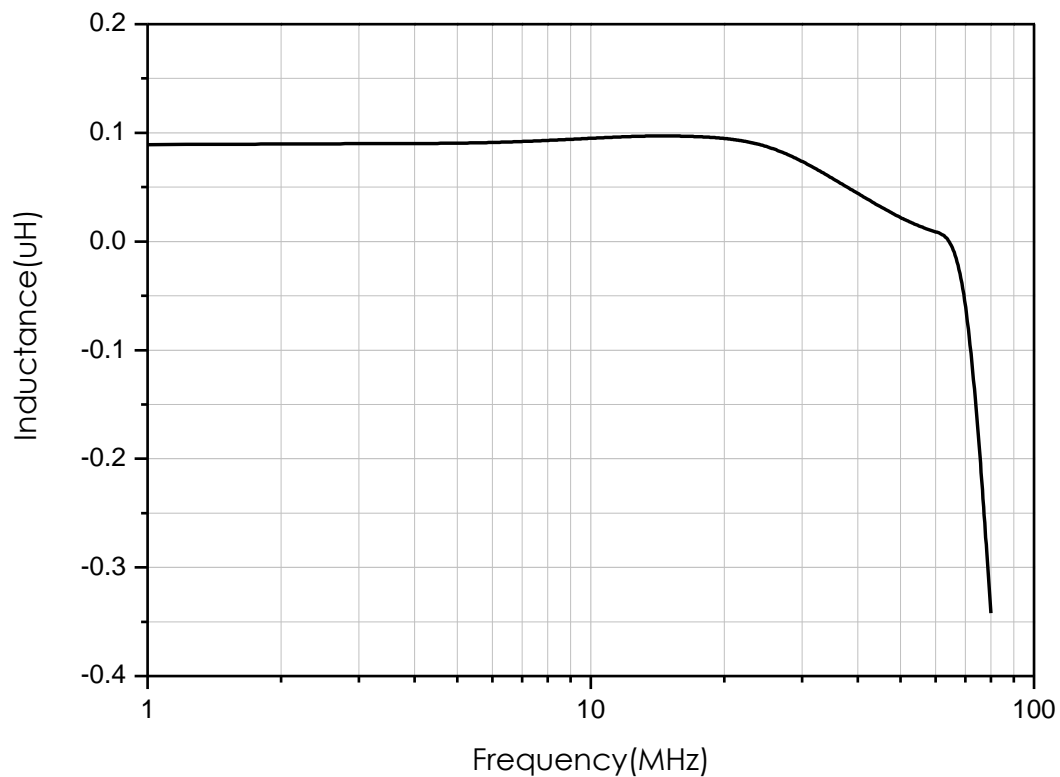
Specifications

Part Number	Inductance (uH) $\pm 10\%$	DCR(mohm) Max(Typ)	IDC1(A) Max(Typ)	IDC2(A) Max(Typ)	Test Frequency (Hz)
CMI-MPLD8050M1-R10K	0.10	0.18(0.15)	55(65)	65(70)	100k

- IDC1: When based on the inductance change rate (approximately 30% below in the initial value)
- IDC2: 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

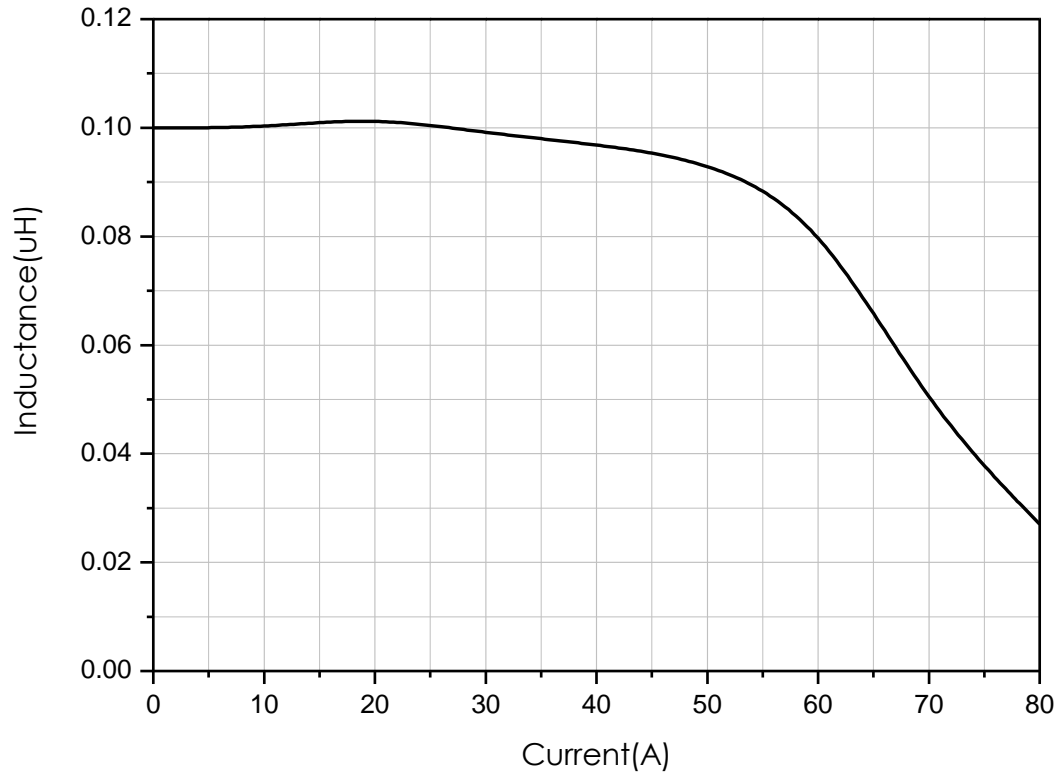
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

FREQUENCY vs INDUCTANCE

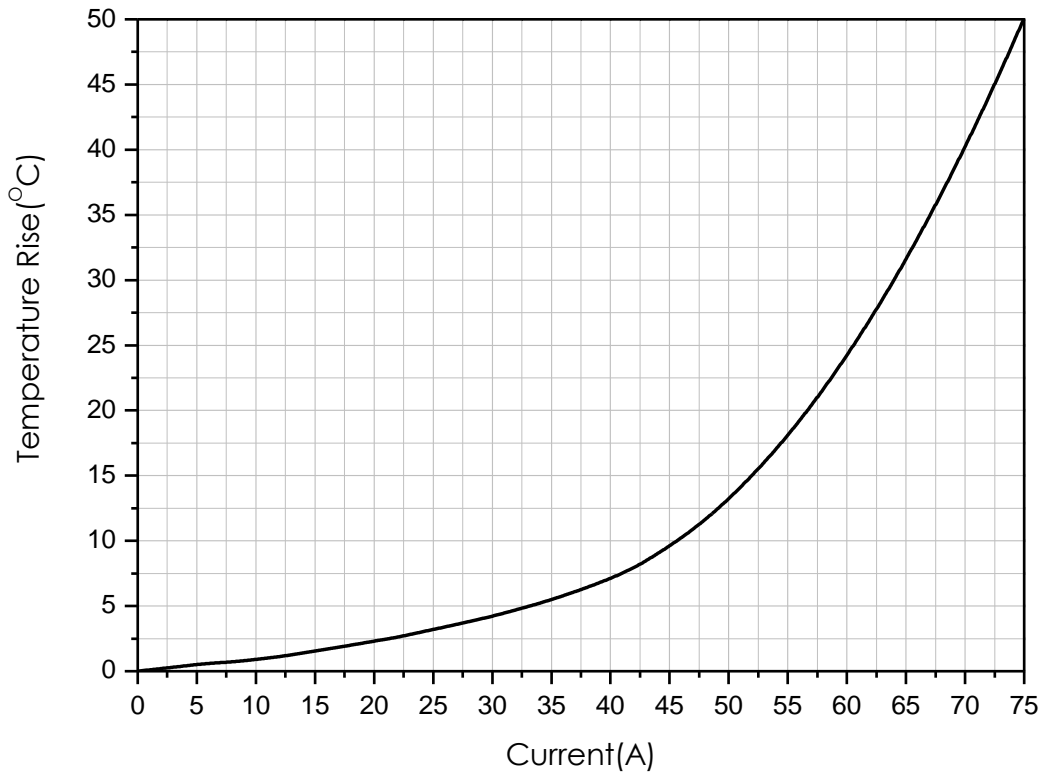


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DC BIAS vs INDUCTANCE



DC BIAS vs TEMPERATURE

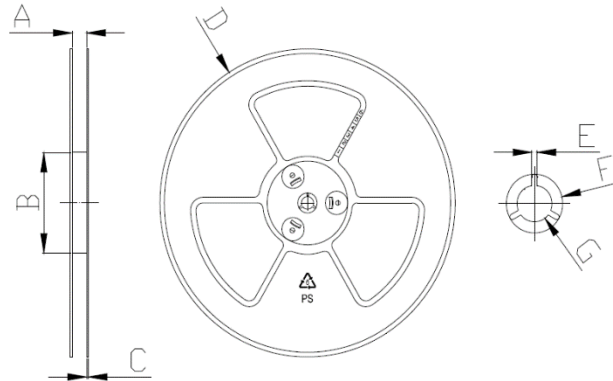


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Packaging

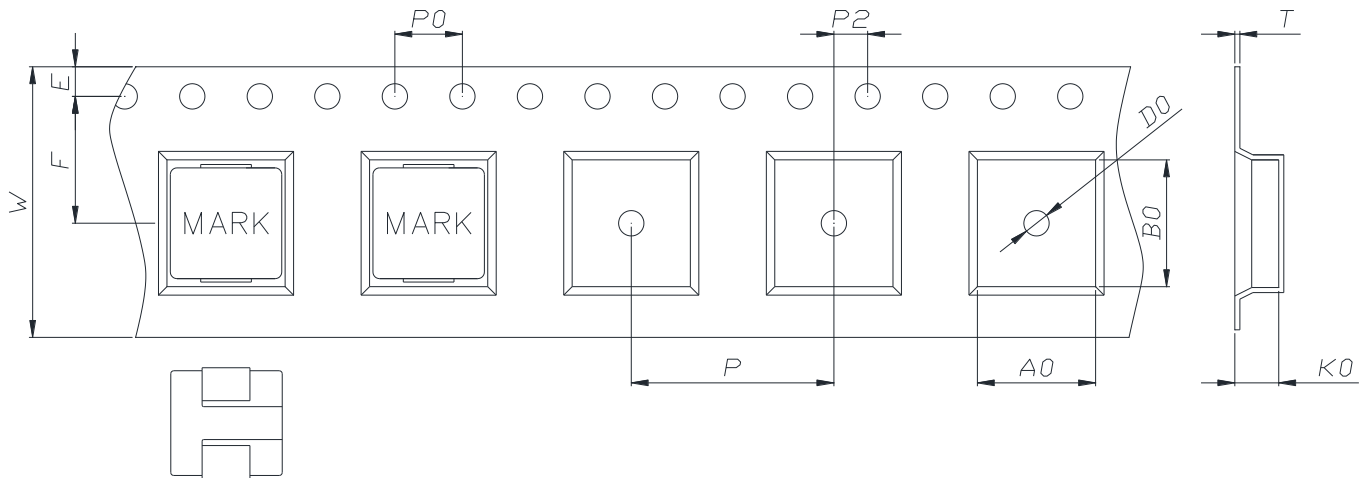
(1) Package quantity : 800 (pcs/reel)

(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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