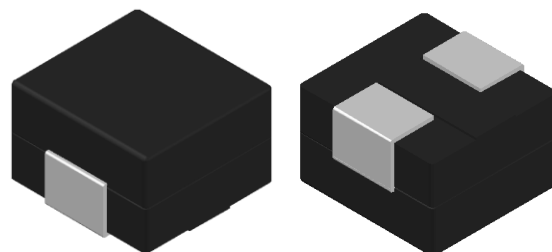


CMI-MPLD8050M1-R10K

Features

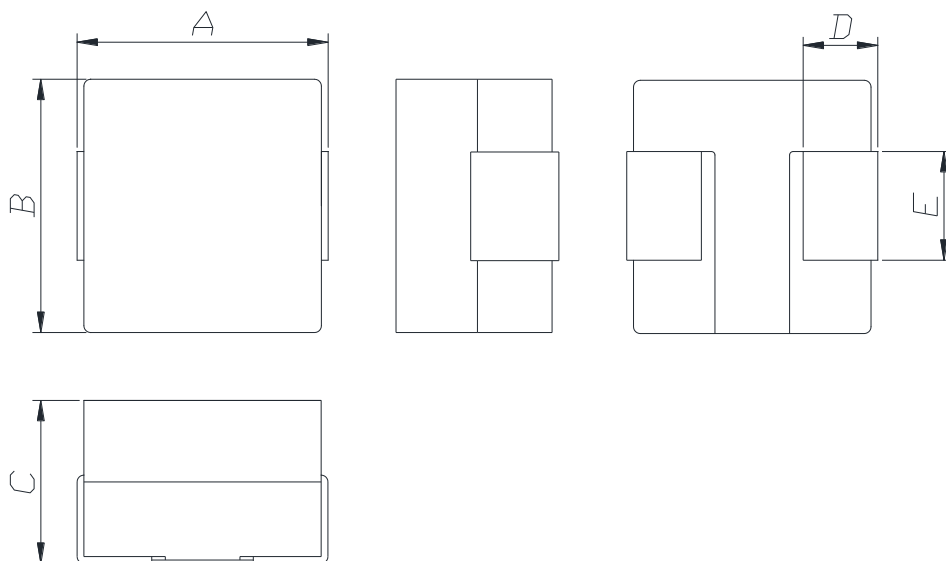
- ▶ High current and Low DCR
- ▶ Ferrite core type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant.
- ▶ Halogen-Free



Applications

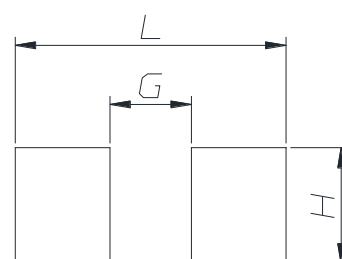
- ▶ Optimized for 5G network and VRM

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

CMI	-	MPLD	8050	M1	-	R10	K
①		②	③	④		⑤	⑥

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

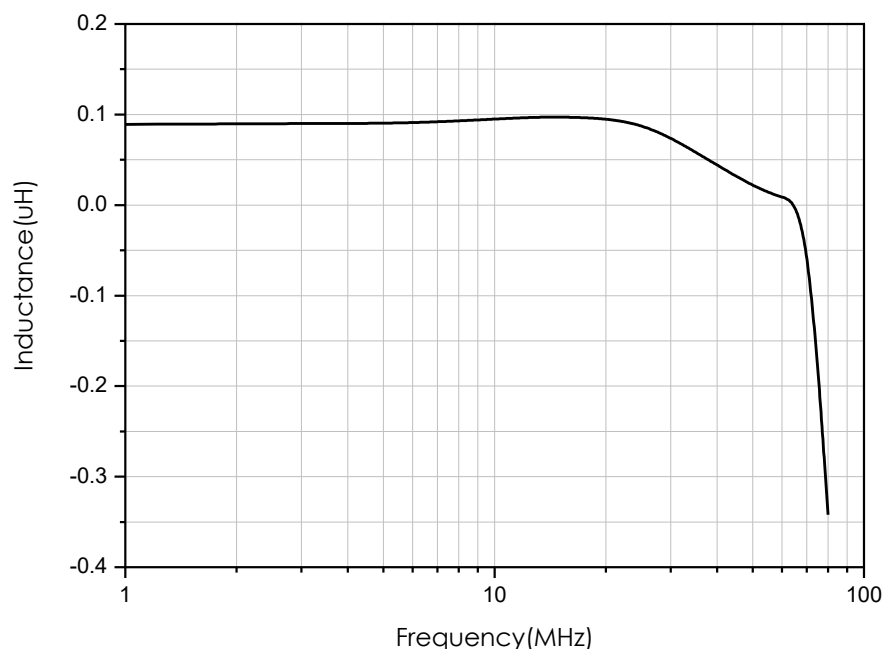
Specifications

Part Number	Inductance (uH) $\pm 10\%$	DCR(mohm) Max(Typ)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-MPLD8050M1-R10K	0.10	0.18(0.15)	55(65)	65(70)	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 ~ +125 °C

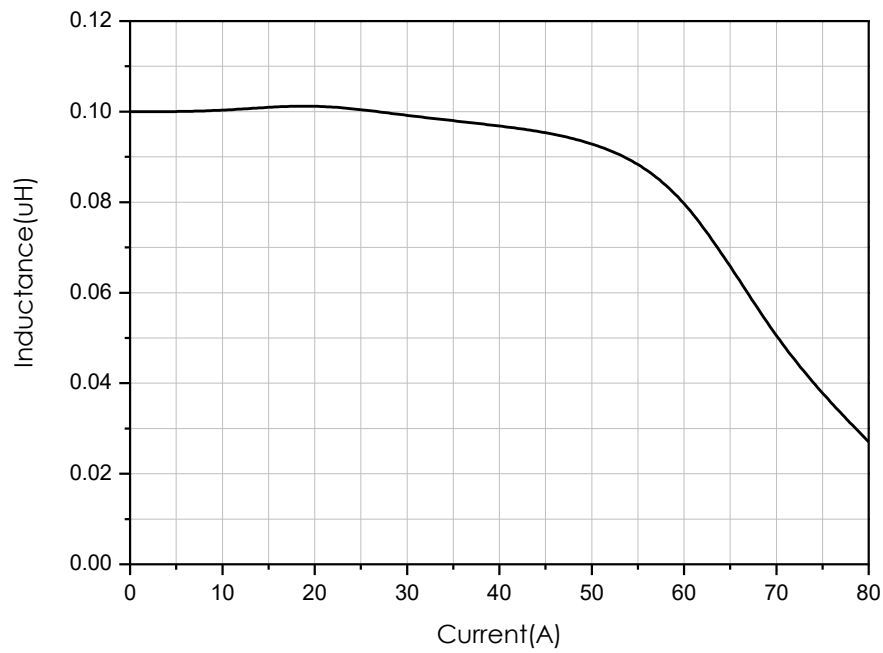
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

FREQUENCY vs INDUCTANCE

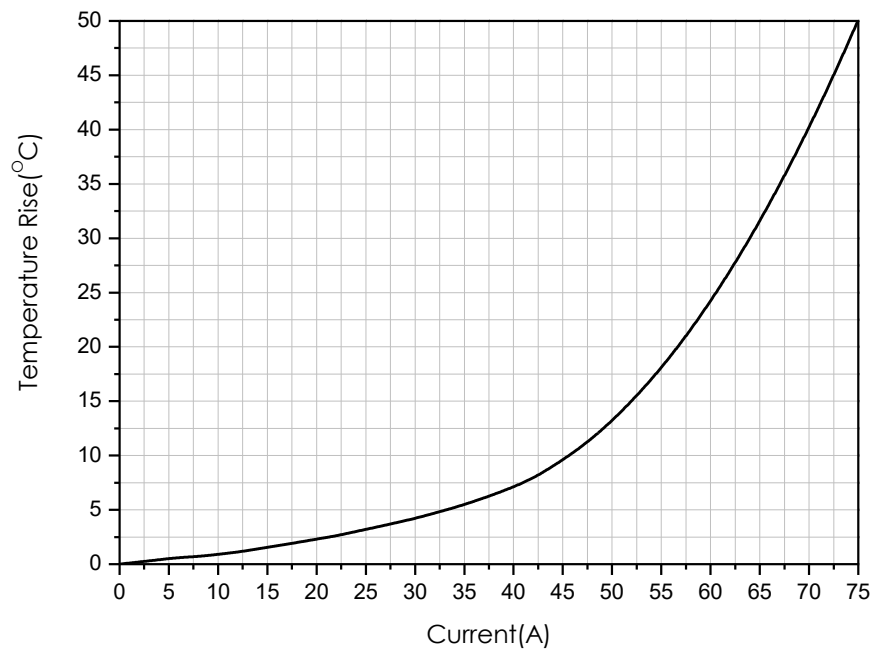


- You can also contact us by e-mail : coilmaster@coilmaster.com
- All specifications are subject to change without notice.
- Update date : 2022.01.17 (Rev.0.0)

DC BIAS vs INDUCTANCE



DC BIAS vs TEMPERATURE

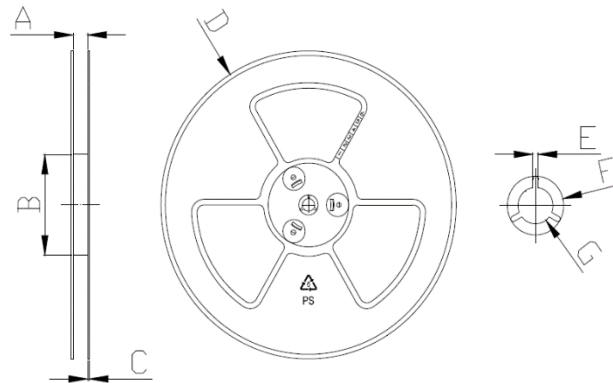


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Packaging

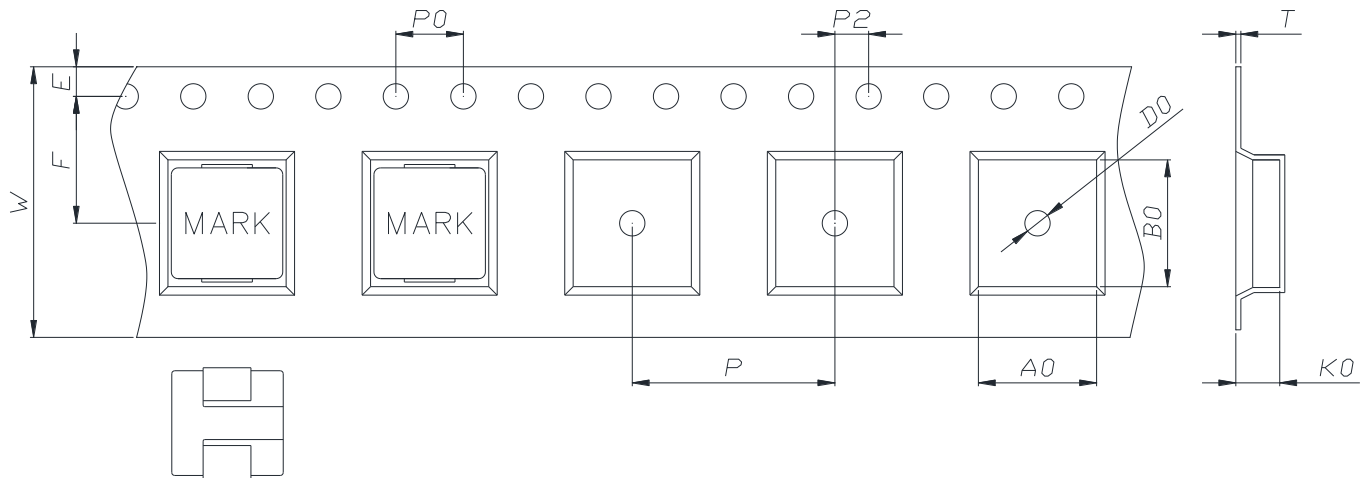
(1) Package quantity : 800 (pcs/reel)

(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

Korea Sales Office (KOREA) +82)31-904-1444
 China Sales Office (CHINA) +86)0758-683-1444
 Hungary Sales office (EUROPE) +36)1-404-5832

H.K Sales Office (HONGKONG) +852)2711-5551
 LA Sales Office (USA) +1)714-616-6989

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