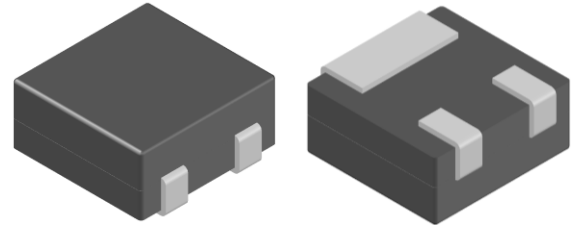


CMI-MPLD10055LH-SERIES

Two ferrite plate low profile and high inductance series

Features

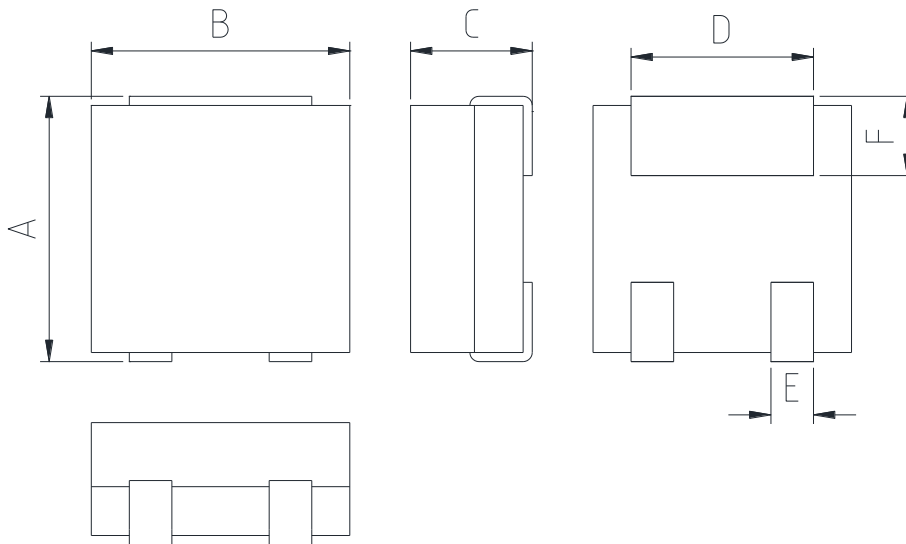
- ▶ High current and precision DCR.
- ▶ Ferrite core type for EMC protection.
- ▶ RoHS compliant / Halogen-Free.



Applications

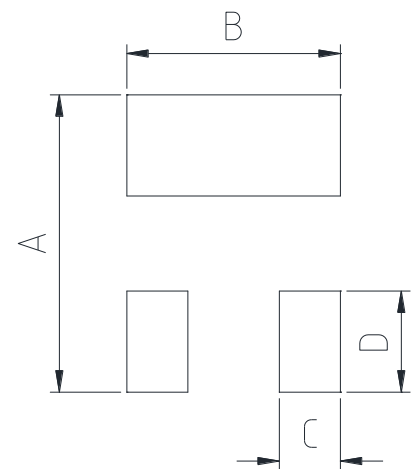
- ▶ Server, workstation and storage systems.
- ▶ Desktop and Notebook.
- ▶ Graphics cards and battery power systems.
- ▶ Multi-phase and VCORE regulators.
- ▶ Voltage Regulator Modules (VRMs)
- ▶ Point-of-Load modules.
- ▶ DCR Sensing circuits.

Dimension (Unit:mm)



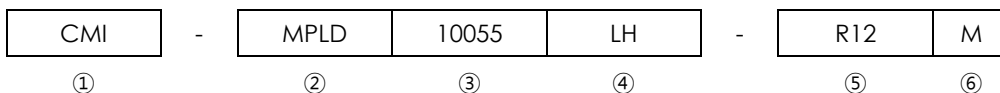
A	B	C	D	E	F
10.95±0.3	10.3±0.3	5.5 Max	6.7±0.3	2.2±0.3	2.4±0.3

Land Pattern (Unit:mm)



A	B	C	D
11.95	7.7	3.2	3.4

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Magnetic Pin Low Dcr Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.12uH)
- ⑥ Inductance tolerance ($\pm 20\%$)

Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) $\pm 10\%$	Isat(A) typ.		Irms(A) Typ.
			T _{amb} =25 °C	T _{amb} =125 °C	
CMI-MPLD10055LH-R12M	0.12	0.88	130	97	35
CMI-MPLD10055LH-R15M	0.15	0.88	100	75	35
CMI-MPLD10055LH-R18M	0.18	0.88	95	70	35
CMI-MPLD10055LH-R22M	0.22	0.88	77	58	35
CMI-MPLD10055LH-R30M	0.30	0.88	55	41	35
CMI-MPLD10055LH-R36M	0.36	0.88	50	37	35
CMI-MPLD10055LH-R42M	0.42	0.88	40	30	35
CMI-MPLD10055LH-R56M	0.56	0.88	30	22	35
CMI-MPLD10055LH-R68M	0.68	0.88	25	18	35
CMI-MPLD10055LH-R82M	0.82	0.88	20	15	35
CMI-MPLD10055LH-1R0M	1.0	0.88	15	11	35

- Test Frequency: 100kHz, 25 °c
- 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 ~ +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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▪ You can also contact us by e-mail : coilmaster@coilmaster.com

- All specifications are subject to change without notice.
- Update date : 2022.01.11

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