

CMI-MPLD5040SH-SERIES

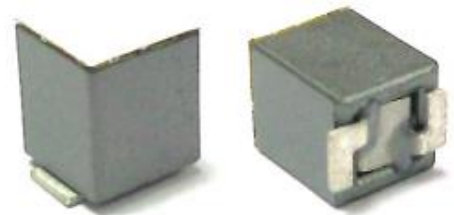
Size minimize series, a new design for highest current in smallest size

Features

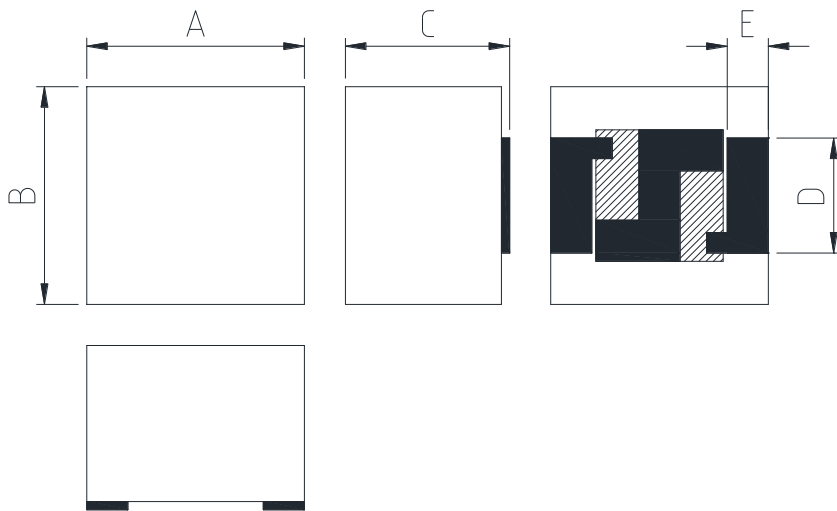
- ▶ High current and precision DCR.
- ▶ Ferrite core type for EMC protection.
- ▶ RoHS compliant / Halogen-Free.

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.

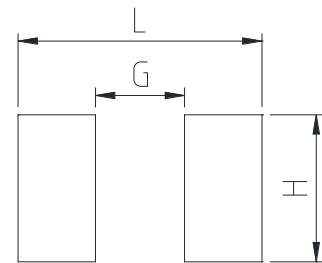


Dimension (Unit:mm)



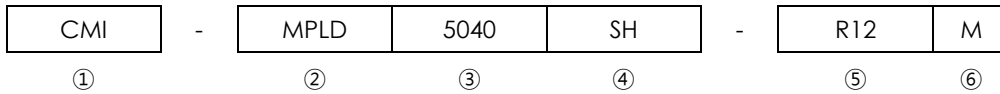
A	B	C	D	E
5.3±0.3	5.3±0.3	4.0 Max	2.8±0.3	1.0±0.3

Land Pattern (Unit:mm)



L	G	H
6.3	2.0	3.8

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 (±20%)

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) ±10%	Isat(A) typ.		Irms(A) Typ.
			T _{amb} =25 °C	T _{amb} =125 °C	
CMI-MPLD5040SH-R12M	0.12	1.95	50	37.5	25
CMI-MPLD5040SH-R15M	0.15	1.95	40	30	25
CMI-MPLD5040SH-R18M	0.18	1.95	33	24	25
CMI-MPLD5040SH-R22M	0.22	1.95	27	20	25
CMI-MPLD5040SH-R30M	0.30	1.95	20	15	25

- 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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