

# CMI-MPLD8050SH-SERIES

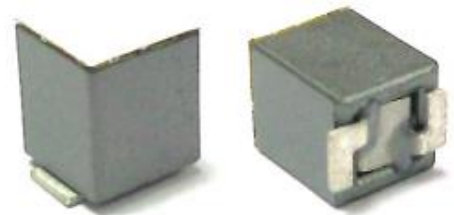
Size minimize series, a new design for highest current in smallest size

## Features

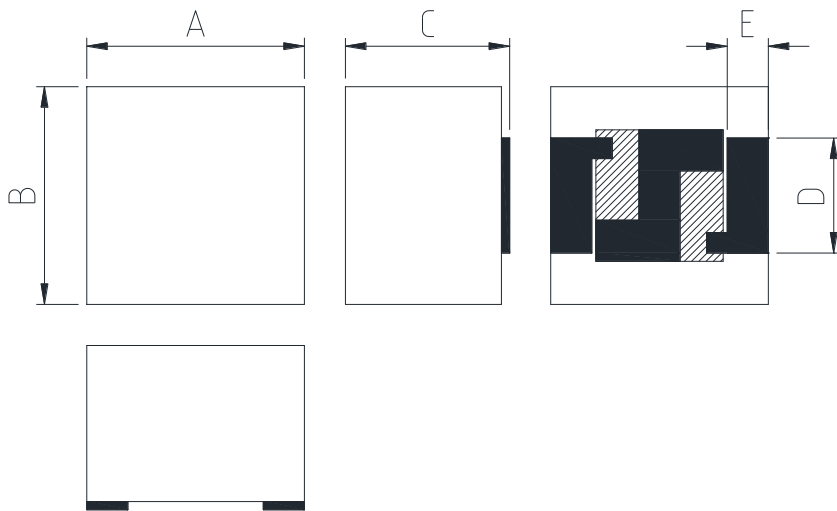
- ▶ High current and precision DCR.
- ▶ Ferrite core type for EMC protection.
- ▶ RoHS compliant / Halogen-Free.

## 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.

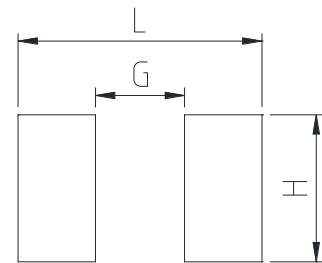


### Dimension (Unit:mm)



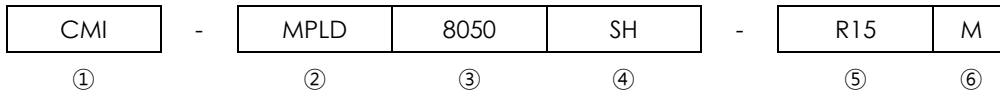
A	B	C	D	E
8.1±0.3	6.5±0.3	5.0 Max	2.9±0.3	1.5±0.3

### Land Pattern (Unit:mm)



L	G	H
9.2	4.9	4.0

## 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 (0.15uH)
- ⑥ Inductance tolerance (±20%)

## Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) ±10%	Isat(A) typ.		Irms(A) Typ.
			T <sub>amb</sub> =25 °C	T <sub>amb</sub> =125 °C	
CMI-MPLD8050SH-R15M	0.15	1.15	60	45	30
CMI-MPLD8050SH-R22M	0.22	1.15	40	30	30
CMI-MPLD8050SH-R30M	0.30	1.15	30	22.5	30
CMI-MPLD8050SH-R47M	0.47	1.15	20	15	30

- 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](mailto:coilmaster@coilmaster.com)**

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

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