



# CMI-MPLD8550SH-SERIES

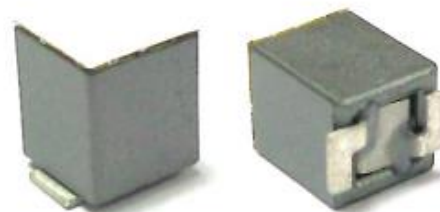
Size minimize series, a new design for highest current in smallest size

## Features

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

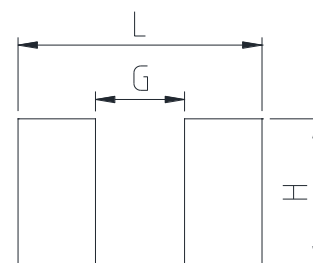
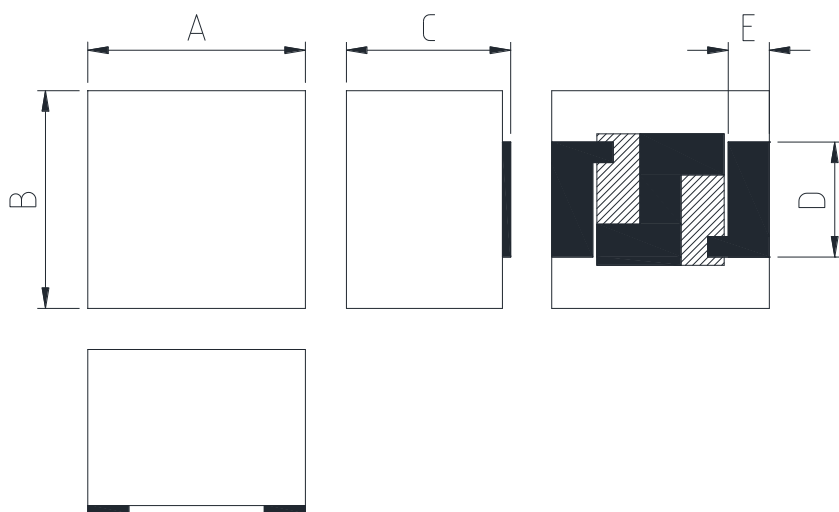
## Applications

- ▶ 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)

### Land Pattern (Unit:mm)

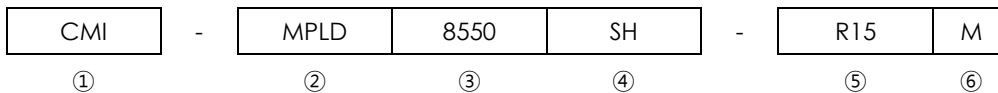


A	B	C	D	E
8.5±0.3	8.0±0.3	5.0 Max	4.5±0.3	1.4±0.3

L	G	H
9.4	4.6	5.5

• 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

## 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 ( $\pm 20\%$ )

## Specifications

Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) $\pm 10\%$	Isat(A) typ.		Irms(A) Typ.
			T <sub>amb</sub> =25 °C	T <sub>amb</sub> =125 °C	
CMI-MPLD8550SH-R15M	0.15	0.86	70	53	35
CMI-MPLD8550SH-R22M	0.22	0.86	50	38	35
CMI-MPLD8550SH-R33M	0.30	0.86	35	26	35
CMI-MPLD8550SH-R47M	0.47	0.86	23	17	35
CMI-MPLD8550SH-R56M	0.56	0.86	18	14	35
CMI-MPLD8550SH-R68M	0.68	0.86	16	12	35
CMI-MPLD8550SH-1R0M	1.0	0.86	9	6.5	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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