



# CMI-MPLD10115TO-SERIES

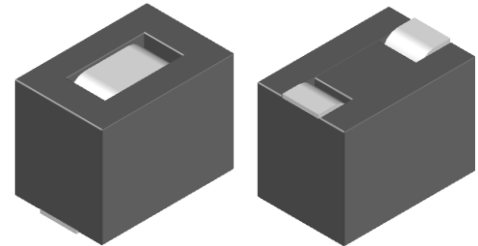
A new construction design for better shielding.

## Features

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

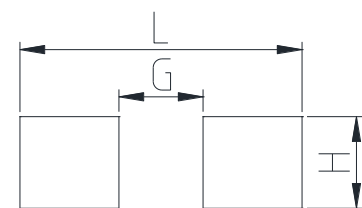
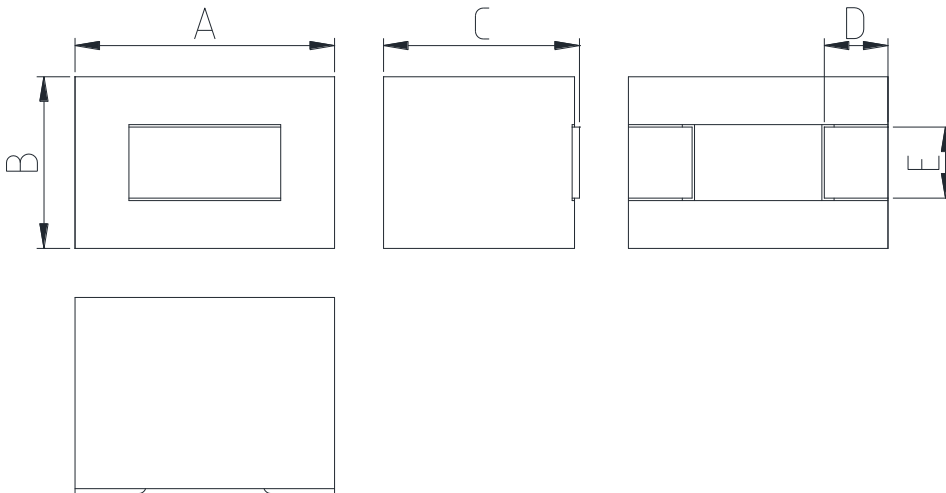
## Applications

- ▶ 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)

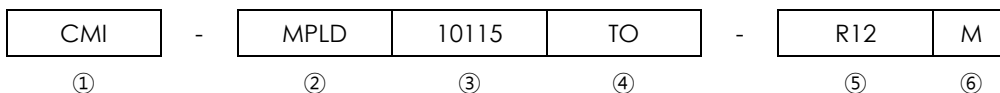


A	B	C	D	E
10.5±0.3	8.0±0.3	11.5 Max	3.8±0.3	2.8±0.3

L	G	H
11.5	3.9	4.5

- 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 : 2022.01.10

## 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-MPLD10115TO-R12M	0.12	0.15	100	75	60
CMI-MPLD10115TO-R15M	0.15	0.15	100	75	60
CMI-MPLD10115TO-R18M	0.18	0.15	90	67.5	60
CMI-MPLD10115TO-R22M	0.22	0.15	70	53	60
CMI-MPLD10115TO-R25M	0.25	0.15	65	48	60
CMI-MPLD10115TO-R30M	0.30	0.15	50	37.5	60
CMI-MPLD10115TO-R47M	0.47	0.42	35	27	60

- 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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