

# CMI-MPLD90100BR-SERIES

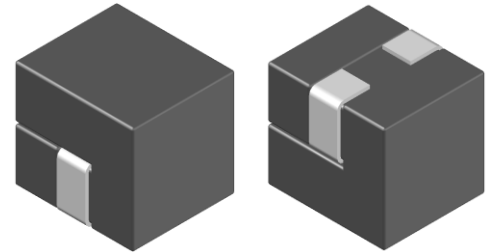
A new design in solid structure for better reliability

## Features

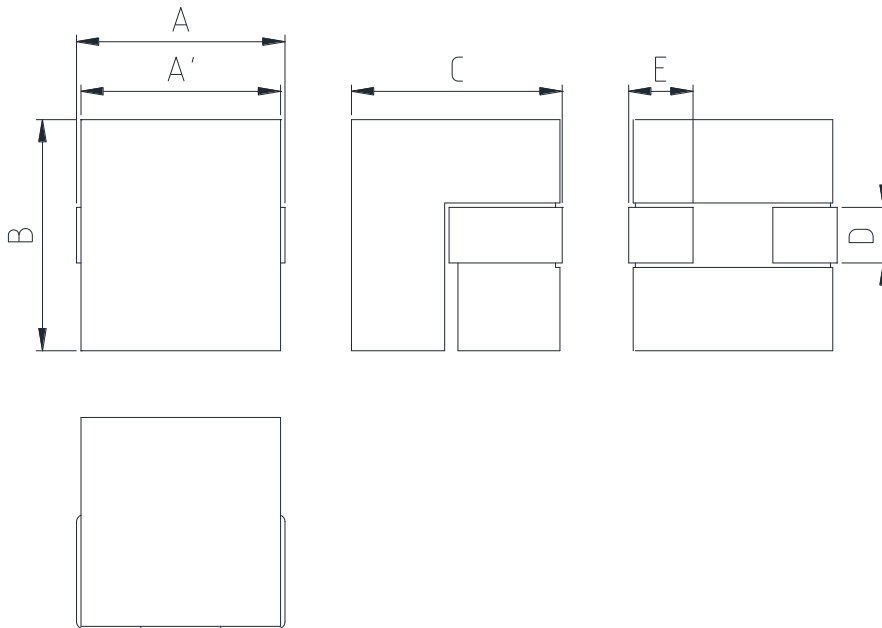
- ▶ High current and precision DCR
- ▶ Ferrite core type for EMC protection.
- ▶ RoHS compliant / Halogen-Free.

## Applications

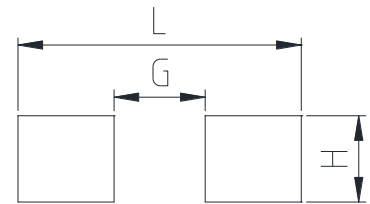
- ▶ Server, workstation and storage systems.
- ▶ Desktop and Notebook.
- ▶ Graphics cards and battery power systems.
- ▶ Multi-phase and VCORE regulators.
- ▶ Voltage Regulator Modules (VRMs)
- ▶ Point-of-Load modules.
- ▶ DCR Sensing circuits.



### Dimension (Unit:mm)



### Land Pattern (Unit:mm)

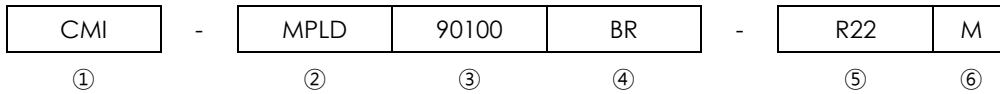


A	A'	B	C	D	E
9.4±0.5	9.0±0.5	10.4±0.5	9.5 Max	2.5±0.3	2.9±0.3

L	G	H
11.5	3.7	3.5

• 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 (0.22uH)
- 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-MPLD90100BR-R22M	0.22	0.32	65	50	45

- 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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Ilsan Sales Office (KOREA)	+82)31-904-1444	H.K Sales Office (HONGKONG)	+852)2711-5551
Shenzhen Sales Office (CHINA)	+86)755-8663-6929	LA Sales Office (USA)	+1)866-446-3586
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▪ **You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)**

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