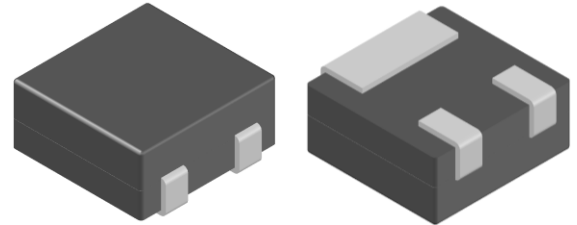


# CMI-MPLD9040LH-SERIES

Two ferrite plate low profile and high inductance series

## Features

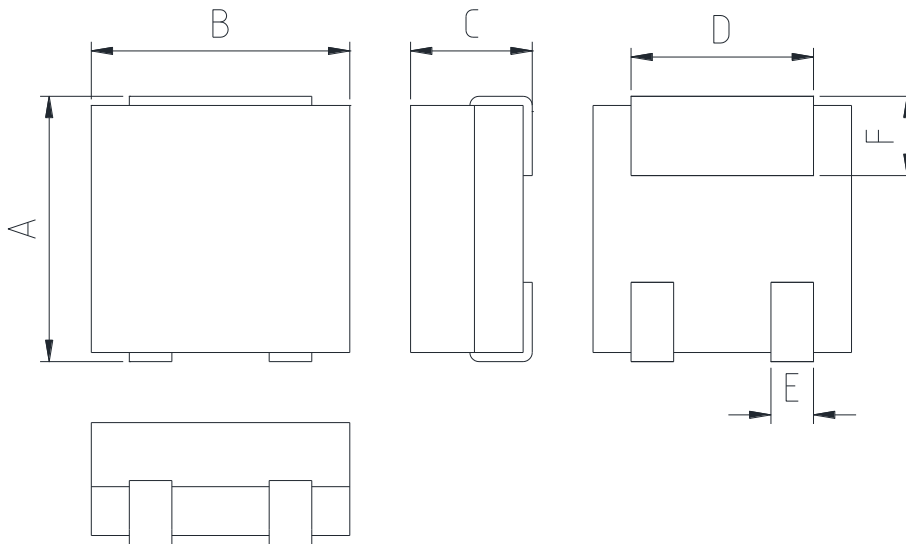
- ▶ High current and precision DCR.
- ▶ Ferrite core type for EMC protection.
- ▶ RoHS compliant / Halogen-Free.



## Applications

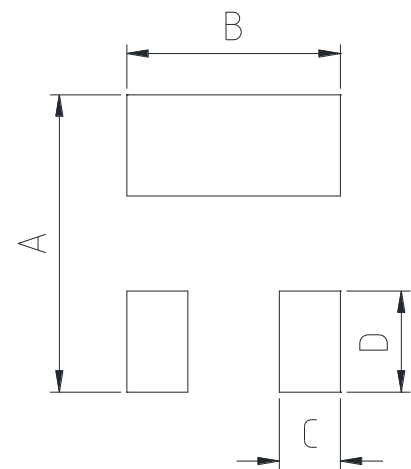
- ▶ Server, workstation and storage systems.
- ▶ Desktop and Notebook.
- ▶ Graphics cards and battery power systems.
- ▶ Multi-phase and VCORE regulators.
- ▶ Voltage Regulator Modules (VRMs)
- ▶ Point-of-Load modules.
- ▶ DCR Sensing circuits.

### Dimension (Unit:mm)



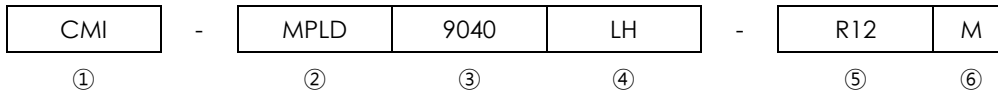
A	B	C	D	E	F
8.7±0.3	8.5±0.3	4.0 Max	6.0±0.3	1.4±0.3	2.6±0.3

### Land Pattern (Unit:mm)



A	B	C	D
9.7	7.0	2.0	3.3

## 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 ( $\pm 20\%$ )

## 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-MPLD9040LH-R12M	0.12	1.2	65	48	16
CMI-MPLD9040LH-R15M	0.15	1.2	52	39	16
CMI-MPLD9040LH-R18M	0.18	1.2	44	33	16
CMI-MPLD9040LH-R22M	0.22	1.2	36	27	16
CMI-MPLD9040LH-R25M	0.25	1.2	32	24	16
CMI-MPLD9040LH-R30M	0.30	1.2	25	18	16
CMI-MPLD9040LH-R36M	0.36	1.2	20	15	16

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

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