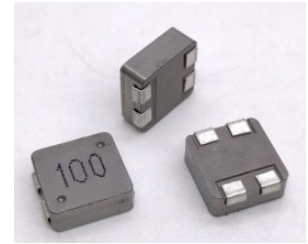
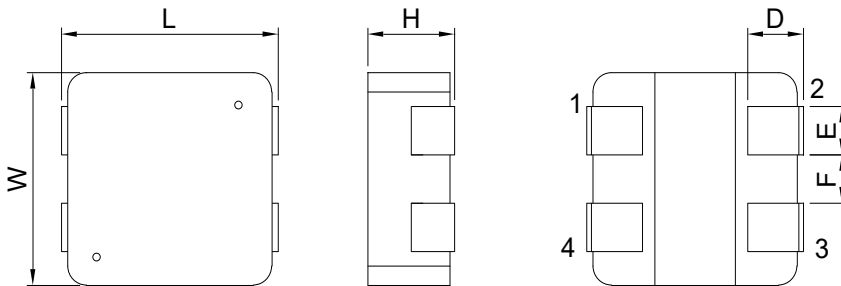


Product Outline

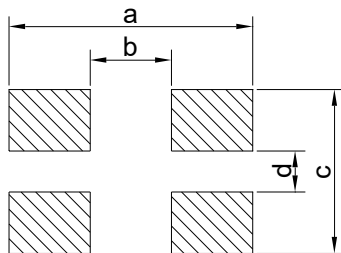
- Alloy powder DC-DC Converter shielded construction.
- High saturation current, low DCR, high efficiency.
- Ultra low buzz noise, due to composite construction.
- Handles high transient current spikes without saturation.
- Coupling is >90% optimized for SEPIC converters.
- It is widely used in SEPIC converters, common mode applications and LED lighting.
- RoHS compliant.



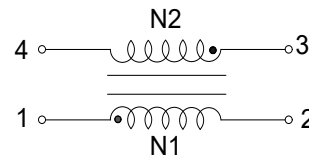
Dimensions



Recommended Land Patterns



Schematics



Unit: mm

Type	L	W	H	D	E	F	a	b	c	d	Packaging (pcs/reel)
MHA1040W	11.0±0.5	10.0±0.3	4.2 Max.	2.2±0.5	2.5±0.3	2.0±0.4	12.0	4.0	8.0	2.0	800

Dimensions without tolerance are typical.

Electrical Characteristics(at 25°C)

Part Number	Inductance ① (uH)	DCR ② (mΩ)Max.(Typ.)	Isat ③ (A) Typ.	Irms ④ (A) Typ.	Rated Voltage (Vdc) Max.	Insulation Resistance (MΩ)Min.
MHA1040W-100M	10±20%	62.0(55.0)	9.80	3.70	50	10

Note:

- ① Inductance tested at 100kHz, 1.0Vrms using an Agilent/HP 4192A or equivalent.
- ② DCR measured on a micro-ohmmeter(Single winding).
- ③ Isat: The DC current at which the inductance to each winding decreases by 30% of its initial value.
- ④ Irms: The DC current to each winding when temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).