

SMD High Current Flat wire power Inductor

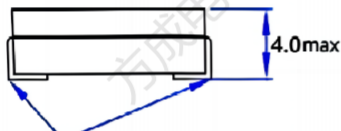
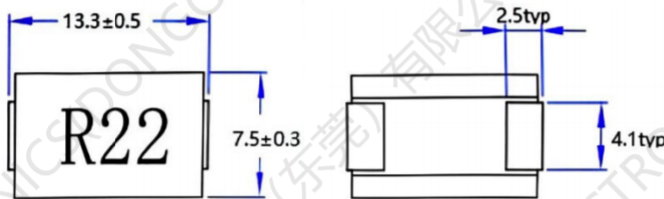
FC-SH1304-Series

Features

- Lowest core losses (MnZn)
- High saturation current .
- Extremely low DCR
- Magnetically shielded
- Operating temperature: -40 °C to +125 °C
- Recommended solder profile: Reflow

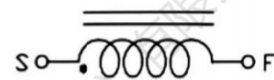


1. Dimensions:mm

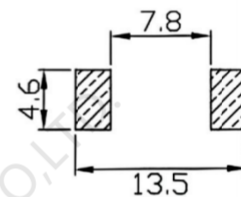


DCR is measured at these points

2.Schematic:



3. Recommended Land Pattern: [mm]



PCB Layout

4. Electrical Properties:

Part Number	Inductance (nH)	DCR mΩ ± 10%	Current (A)	
	L ± 20%		I _{rms} (typ)	I _{sat} (typ)
FC-SH1304-R10M-45A	100	0.225	45	60
FC-SH1304-R12M-45A	120	0.225	45	53
FC-SH1304-R15M-45A	150	0.225	45	40
FC-SH1304-R22M-45A	220	0.225	45	30
FC-SH1304-R30M-45A	300	0.225	45	18
FC-SH1304-R47M-45A	470	0.225	45	12

Inductance Test Freq. : 100KHz /1V

I_{rms} base on Temp. rise 40°C max.

I_{sat} base on Δ L / LOA=20% typ.