Inductor



RoHS Compliant



Specifications:

Inductance : 180µH Inductance Tolerance : ± 10% DC Resistance Max : 0.71Ω DC Current Rating : 510mA : SMD Inductor Case Style No. of Pins Lead Spacing : 3mm Core Material : Ferrite External Depth : 7mm External Length / Height : 5mm External Width : 7.8mm Resonant Frequency : 100kHz Series : MCSD75

Electrical Characteristics (at 25°C)

100kHz 0.25V	L	180μH ±10%
at 25°C	DCR	0.71Ω (Max.)
100kHz 0.25V Irms = 0.51A	ΔΤ	Temperature Rise 40°C (Max.)

Operating temperature: -55°C to +130°C

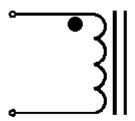
Material List

No.	Item	Material Description
1	Core	R5A CDR7.8 × 5(ST) B2.9 F2.5
2	Wire	Ø0.2mm × 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

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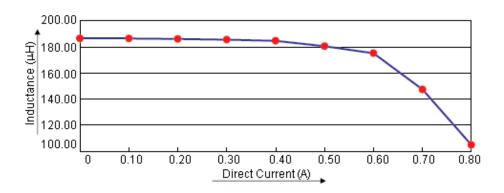
Schematic Diagram

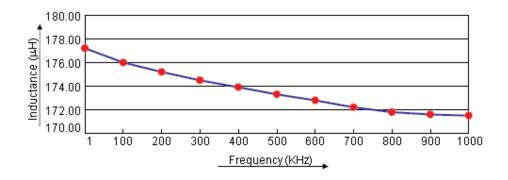


Note:

- 1. Wire Ø0.2mm × 1P 2UEWF 155°C
- 2. 70.5TS (Reference)

Electric Characteristics

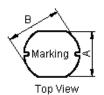




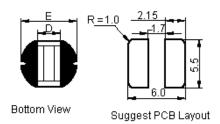
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Configurations and Dimensions







Dimensions: Millimetres

Α	7 ±0.3mm	-
В	7.8 ±0.3mm	-
С	5 ±0.5mm	-
D	3mm	(Reference)
E	8 ±0.5mm	-

Part Number Table

Description	Part Number
Inductor, 180µH, 510mA, 10%	MCSD75-181KU

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