Inductor



RoHS Compliant



Specifications:

Inductance : 82µH Inductance Tolerance : ± 10% : 0.25Ω DC Resistance Max DC Current Rating : 1A Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 3.5mm Core Material : Ferrite External Depth : 9mm External Length / Height : 5.4mm External Width : 10.2mm Resonant Frequency : 100kHz Series : MCSD105

Electrical Characteristics (at 25°C)

100kHz 0.25V	L	82μH ±10%
at 25°C	DCR	0.25Ω (Max.)
100kHz 0.25V Irms = 1A	ΔΤ	Temperature Rise 40°C (Max.)

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

Material List

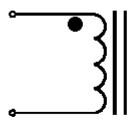
No.	Item	Material Description
1	Core	R5A CDR10 × 5.4 (ST) B3.8 F2.6
2	Wire	Ø0.35mm × 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%



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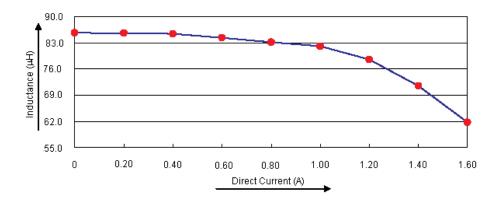
Schematic Diagram

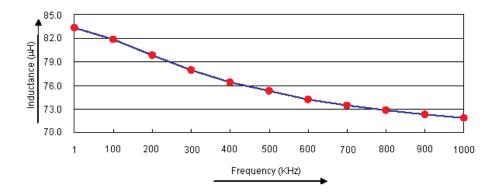


Note:

- 1. Wire Ø0.35mm × 1P 2UEWF 155°C
- 2. 39.5TS (Reference)

Electric Characteristics

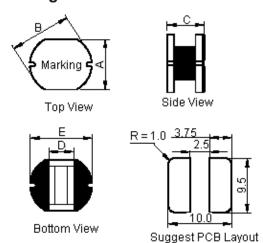




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Configurations and Dimensions



Dimensions: Millimetres

А	9 ±0.4mm	-
В	10 ±0.4mm	-
С	5.4 ±0.5mm	-
D	3.5mm	(Reference)
E	10.2 ±0.5mm	-

Part Number Table

Description	Part Number
Inductor, 82µH, 1A, ±10%	MCSD105-820KU

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