Inductor

RoHS Compliant

Specifications:

Inductance	: 180µH
Inductance Tolerance	: ± 10%
DC Resistance Max	: 0.71Ω
DC Current Rating	: 510mA
Inductor Case Style	: SMD
No. of Pins	: 2
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)

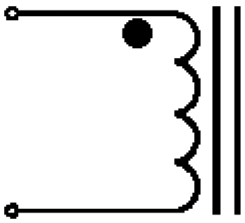
100kHz 0.25V	L	180µH ±10%
at 25°C	DCR	0.71Ω (Max.)
100kHz 0.25V I_{rms} = 0.51A	ΔT	Temperature Rise 40°C (Max.)

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%

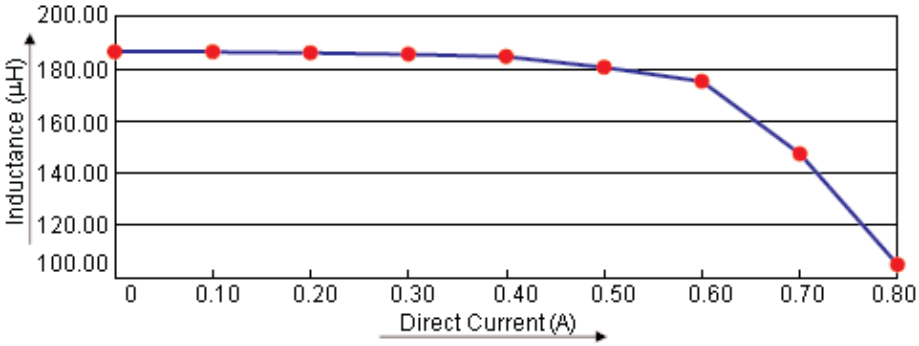
Schematic Diagram

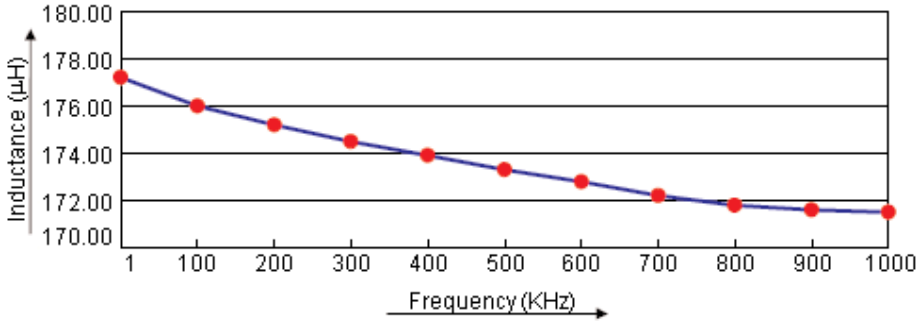


Note:

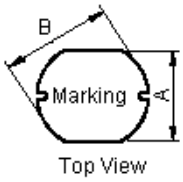
1. Wire Ø0.2mm × 1P 2UEWF 155°C
2. 70.5TS (Reference)

Electric Characteristics



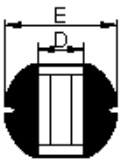


Configurations and Dimensions

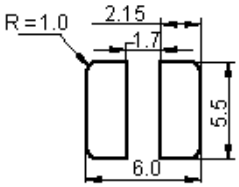


Top View

Side View



Bottom View



Suggest PCB Layout

A	7 ±0.3mm	-
B	7.8 ±0.3mm	-
C	5 ±0.5mm	-
D	3mm	(Reference)
E	8 ±0.5mm	-

Dimensions : Millimetres

Part Number Table

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