

RoHS
Compliant



Specifications:

Inductance	: 47 μ H
Inductance Tolerance	: \pm 10%
DC Resistance Max	: 0.15 Ω
DC Current Rating	: 1.53A
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	47 μ H \pm 10%
at 25°C	DCR	150m Ω (Max.)
100kHz 0.25V I _{rms} = 1.53A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR10 \times 5.4 (ST) B3.8 F2.6
2	Wire	\varnothing 0.4mm \times 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

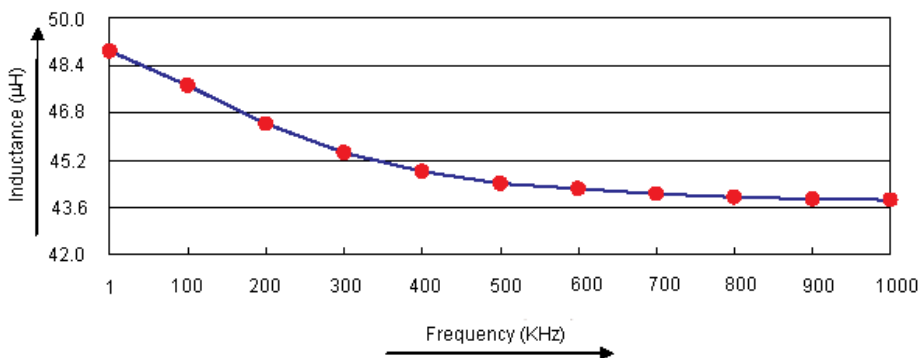
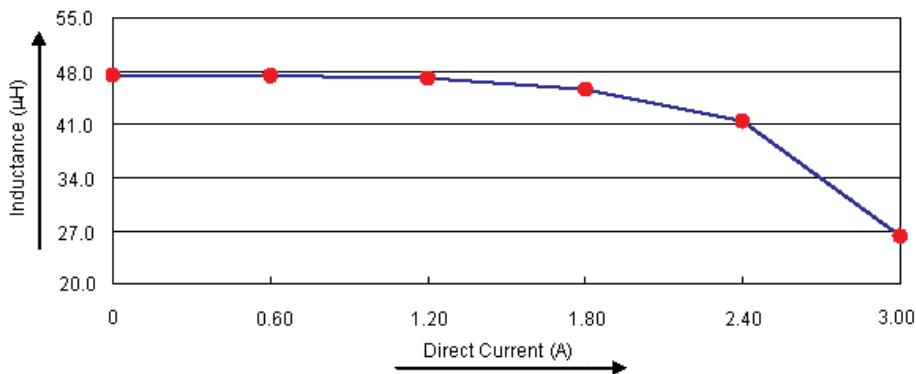
Schematic Diagram



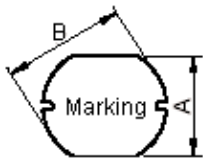
Note:

1. Wire $\varnothing 0.4\text{mm} \times 1\text{P 2UEWF } 155^{\circ}\text{C}$
2. 30.5TS (Reference)

Electric Characteristics



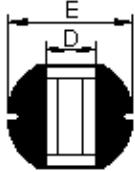
Configurations and Dimensions



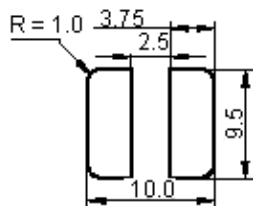
Top View



Side View



Bottom View



Suggest PCB Layout

A	9 ±0.4mm	-
B	10 ±0.4mm	-
C	5.4 ±0.5mm	-
D	3.5mm	(Reference)
E	10.2 ±0.5mm	-

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 47µH, ±10%, 2Pins	MCSD105-470KU

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