

RoHS
Compliant



Specifications:

Inductance	: 33 μ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 0.18 Ω
DC Current Rating	: 1.25A
Self Resonant Frequency	: 14MHz
Inductor Case Style	: SMD
No. of Pins	: 8
Lead Spacing	: 1.5mm
Core Material	: Ferrite
External Depth	: 12.5mm
External Length / Height	: 6.3mm
External Width	: 10.5mm
Resonant Frequency	: 1kHz
Series	: MCSDC0906

Electrical Characteristics (at 25°C)

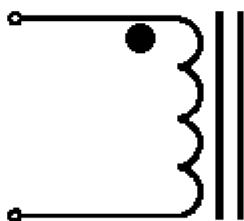
1kHz 1V	L	33 μ H $\pm$ 10%
at 25°C	DCR	180m Ω (Max.)
1kHz 1V I _{rms} = 1.25A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR9 $\times$ 4.1 B4 F2.15
2	Wire	$\varnothing$ 0.3mm $\times$ 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%
4	Glue	TH320
5	Base	SB-001-3 LCP-E4008

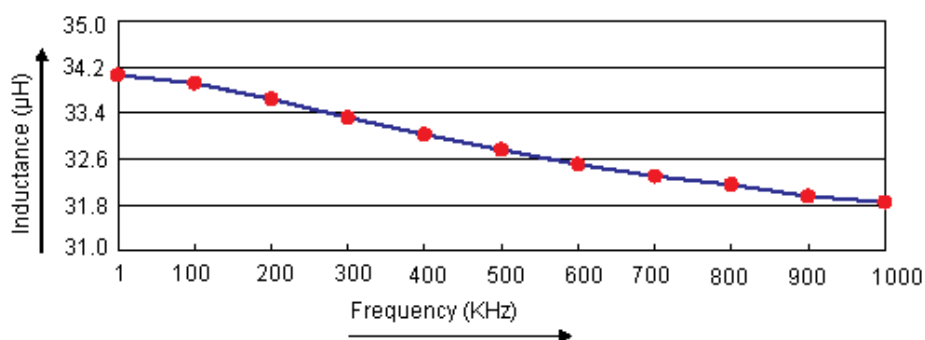
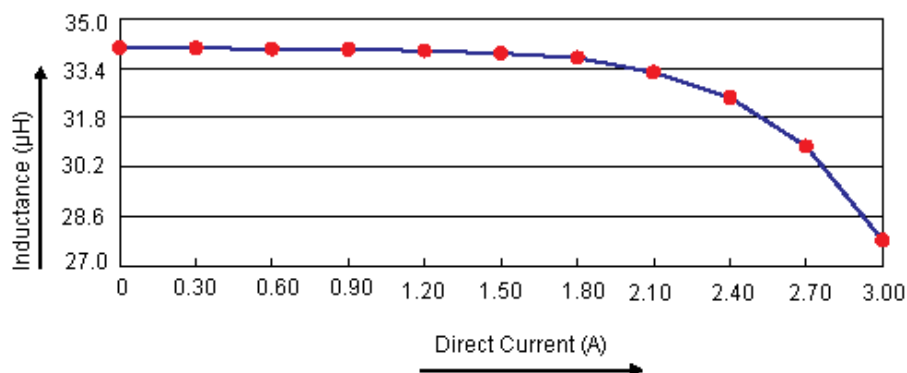
Schematic Diagram



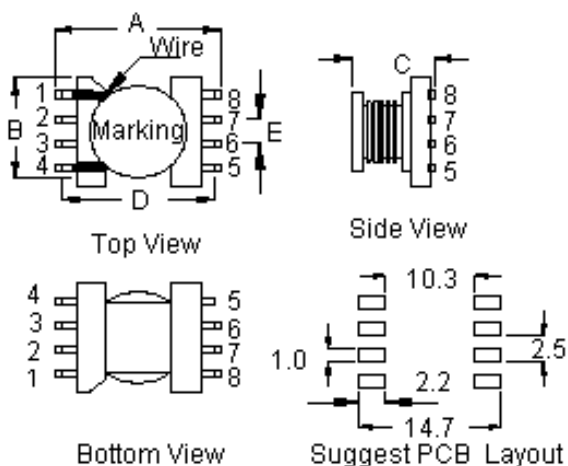
Note:

1. Wire $\varnothing 0.3\text{mm} \times 1\text{P 2UEWF } 155^{\circ}\text{C}$
2. 24.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



Dimensions : Millimetres

A	12.5 ±0.5 mm	-
B	10.5 mm	(Maximum)
C	6.3mm	(Maximum)
D	11 ±0.5mm	-
E	2.5 ±0.3mm	-

Part Number Table

Description	Part Number
Inductor, 33µH, 10%, SMD	MCSDC0906-330KU

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