Inductor



RoHS Compliant



Specifications:

Inductance : 47µH Inductance Tolerance : ± 10% DC Resistance Max : 0.17Ω DC Current Rating : 1.25A Self Resonant Frequency : 8MHz Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 2.8mm Core Material : Ferrite External Depth : 9.8mm External Length / Height : 5.8mm External Width : 9.8mm Resonant Frequency : 1kHz

Series : MCSDC1006

Electrical Characteristics (at 25°C)

1kHz 1V	L	47μH ±10%
at 25°C	DCR	170mΩ (Max.)
1kHz 1V Irms = 1.25A	ΔΤ	Temperature Rise 40°C (Max.)

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

Material List

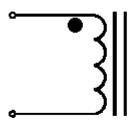
No.	Item	Material Description
1	Core	K22 DRM 9.5 × 5.5 RB-R B = 4.5 F = 3
2	Wire	Ø0.35mm × 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%



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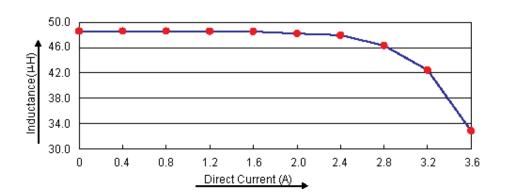
Schematic Diagram

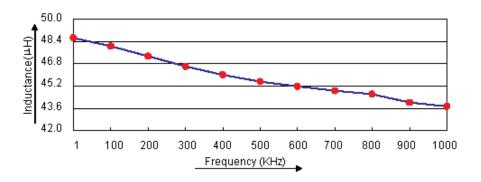


Note:

- 1. Wire Ø0.35mm × 1P 2UEF1/U 155°C
- 2. 32.5TS (Reference)

Electric Characteristics



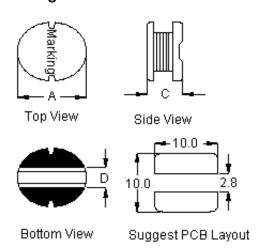




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Configurations and Dimensions



Dimensions: Millimetres

А	9.8mm	(Maximum)
С	5.8mm	(Maximum)
D	2.9mm	(Reference)

Part Number Table

Description	Part Number
Inductor, 47µH, ±10%, SMD	MCSDC1006-470KU

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