



Specifications:

Inductance	: 1.5 μ H
Inductance Tolerance	: \pm 20%
DC Resistance Max	: 0.018 Ω
DC Current Rating	: 6.4A
Self Resonant Frequency	: 105MHz
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)

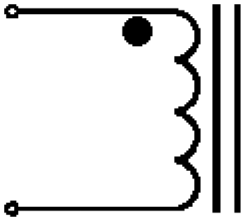
1kHz 1V	L	1.5 μ H \pm 20%
at 25°C	DCR	18m Ω (Max.)
1kHz 1V I _{rms} = 6.4A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	K22 DRM 9.5 \times 5.5 RB-R B=4.5 F=3
2	Wire	\varnothing 0.35mm \times 2P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

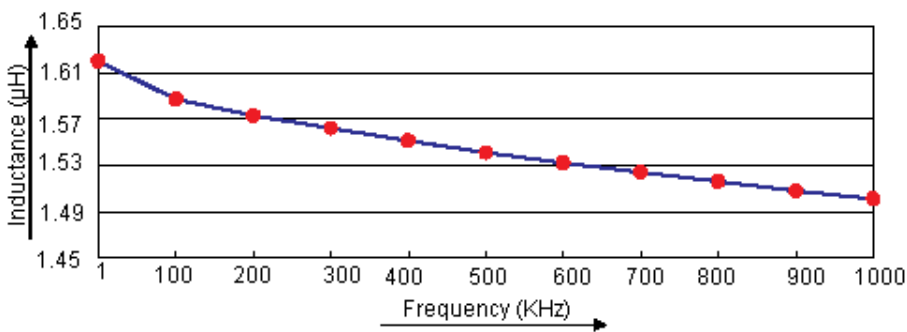
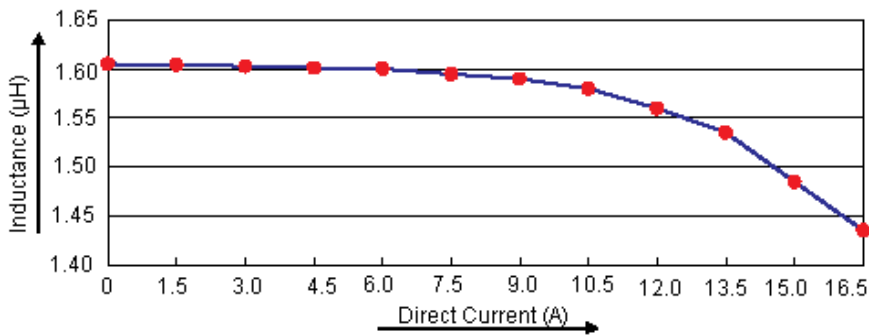
Schematic Diagram



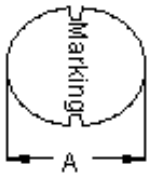
Note:

1. Wire $\varnothing 0.35\text{mm} \times 2\text{P 2UEF1/U } 155^\circ\text{C}$
2. 5.5TS (Reference)

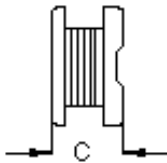
Electric Characteristics



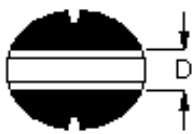
Configurations and Dimensions



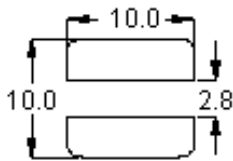
Top View



Side View



Bottom View



Suggest PCB Layout

A	9.8 mm	(Maximum)
B	5.8 mm	(Maximum)
C	2.9mm	(Reference)

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 1.5µH, 20%, SMD	MCSDC1006-1R5MU

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