

RoHS
Compliant



Specifications:

Inductance	: 470 μ H
Inductance Tolerance	: \pm 10%
DC Resistance Max	: 1.48 Ω
DC Current Rating	: 420mA
Self Resonant Frequency	: 2.5MHz
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	470 μ H \pm 10%
at 25°C	DCR	1.48 Ω (Max.)
1kHz 1V I _{rms} = 0.42A	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 × 5.5 RB-R B = 4.5 F = 3
2	Wire	Ø0.2mm × 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

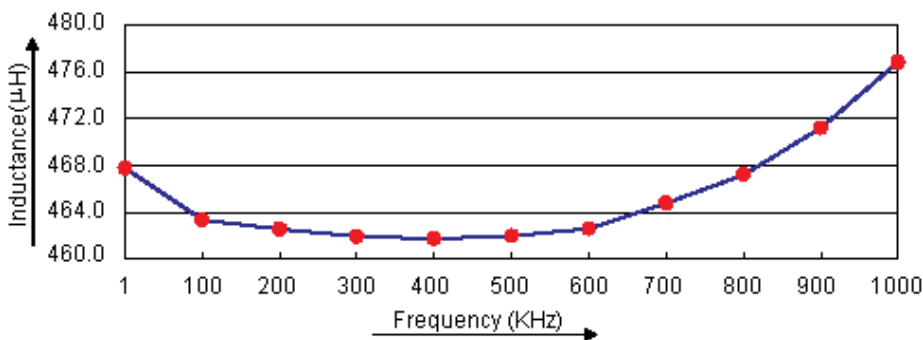
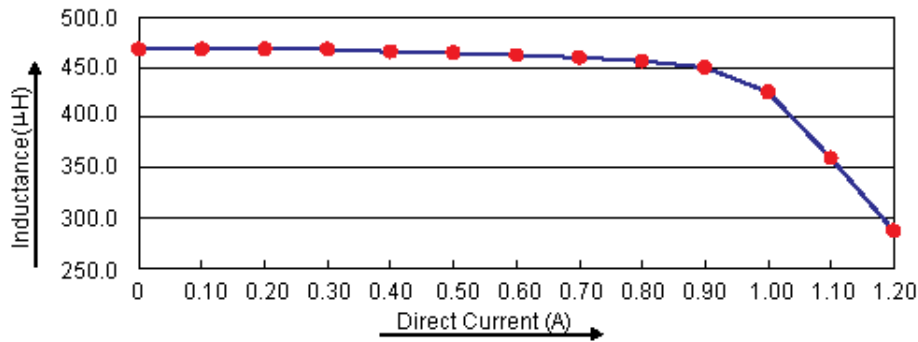
Schematic Diagram



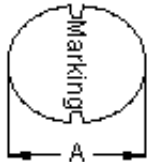
Note:

1. Wire $\varnothing 0.2\text{mm} \times 2\text{P 2UEF1/U } 155^\circ\text{C}$
2. 101.5TS (Reference)

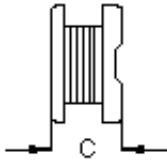
Electric Characteristics



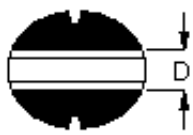
Configurations and Dimensions



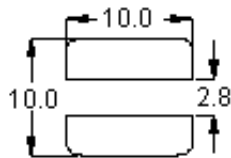
Top View



Side View



Bottom View



Suggest PCB Layout

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

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 470 μ H, \pm 10%, SMD	MCSDC1006-471KU

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