

RoHS
Compliant



Specifications:

Inductance	: 2.5μH
Inductance Tolerance	: ± 20%
DC Resistance Max	: 50Ω
DC Current Rating	: 2.35A
Self Resonant Frequency	: 74MHz
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 1.8mm
Core Material	: Ferrite
External Depth	: 5.8mm
External Length / Height	: 3.9mm
External Width	: 6mm
Resonant Frequency	: 1kHz
Series	: MCSDC0603

Electrical Characteristics (at 25°C)

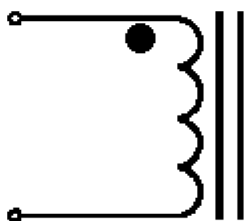
1kHz 1V	L	2.5μH ±20%
at 25°C	DCR	50mΩ (Max.)
1kHz 1V I _{rms} = 2.35A	ΔT	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	K22 DRM 5.6 × 3.6 RB-R B2.2 F1.5
2	Wire	Ø0.35mm × 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

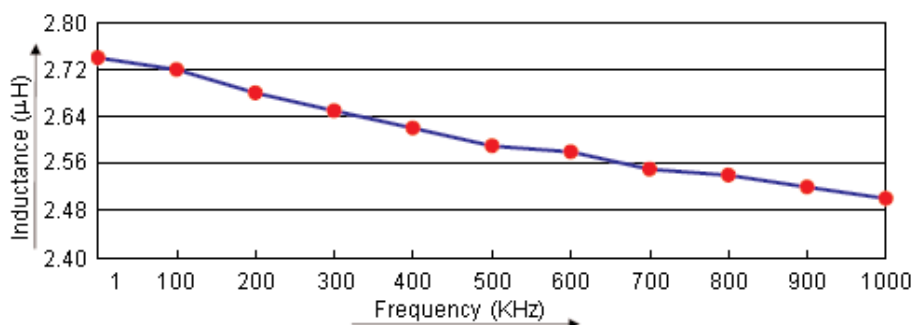
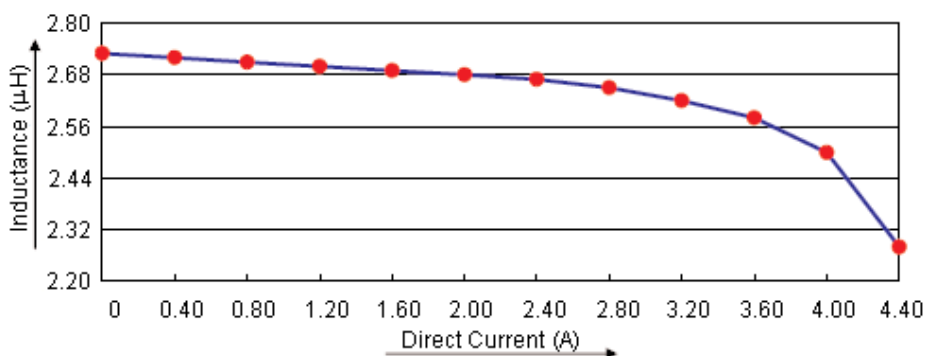
Schematic Diagram



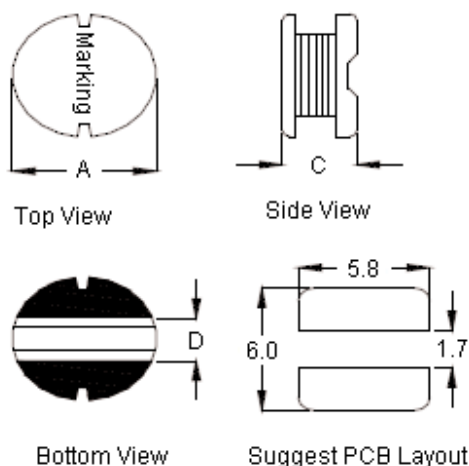
Note:

1. Wire $\varnothing 0.35\text{mm} \times 1\text{P 2UEF1/U } 155^{\circ}\text{C}$
2. 8.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



A	5.8mm	(Maximum)
B	3.9mm	(Maximum)
C	1.8mm	(Reference)

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 2.5μH, 20%, SMD	MCSDC0603-2R5MU

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