



Specifications:

Inductance	: 10 μ H
Inductance Tolerance	: \pm 20%
DC Resistance Max	: 0.08 Ω
DC Current Rating	: 1.45A
Self Resonant Frequency	: 23MHz
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 1.8mm
Core Material	: Ferrite
External Depth	: 5.8mm
External Length / Height	: 4.8mm
External Width	: 6mm
Resonant Frequency	: 1kHz
Series	: MCSDC0604

Electrical Characteristics (at 25°C)

1kHz 1V	L	10 μ H \pm 20%
at 25°C	DCR	80m Ω (Max.)
1kHz 1V I _{rms} = 1.45A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR5.6 \times 4.55 (ST) B2.4 F2.1
2	Wire	\varnothing 0.25mm \times 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

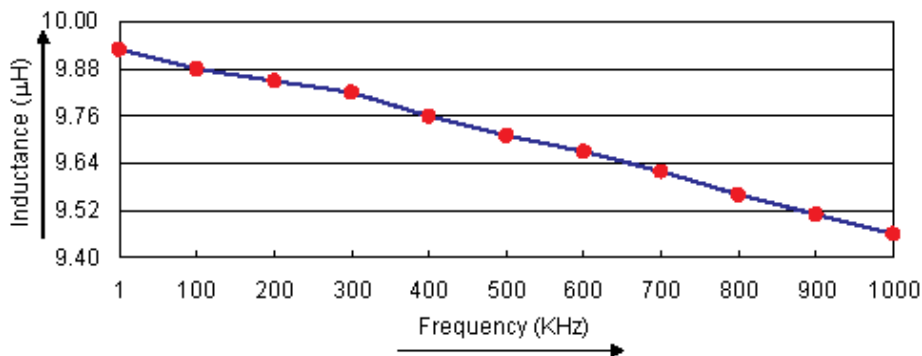
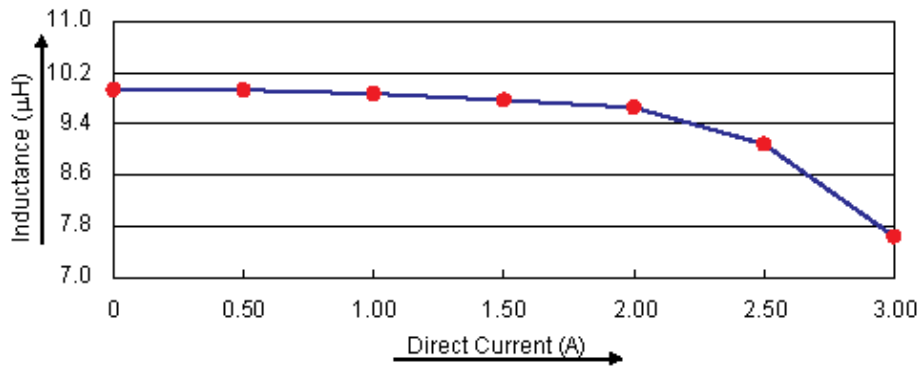
Schematic Diagram



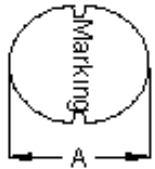
Note:

1. Wire $\varnothing 0.25\text{mm} \times 1\text{P 2UEF1/U } 155^\circ\text{C}$
2. 18.5TS (Reference)

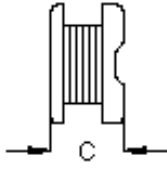
Electric Characteristics



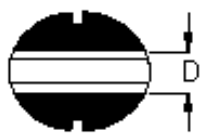
Configurations and Dimensions



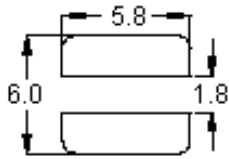
Top View



Side View



Bottom View



Suggest PCB Layout

A	5.8mm	(Maximum)
B	4.8mm	(Maximum)
C	1.8mm	(Reference)

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 10 μ H, 20%, SMD	MCSDC0604-100MU

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