## Inductor



## RoHS Compliant



## **Specifications:**

Inductance : 2.5µH : ± 20% Inductance Tolerance DC Resistance Max : 50Ω DC Current Rating : 2.35A : 74MHz Self Resonant Frequency Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 1.8mm Core Material : Ferrite : 5.8mm External Depth 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 Irms = 2.35A	ΔΤ	Temperature Rise 40°C (Max.)

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

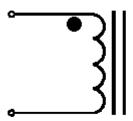
#### **Material List**

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%

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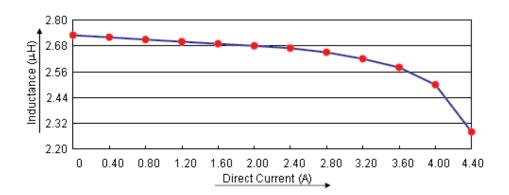
## **Schematic Diagram**

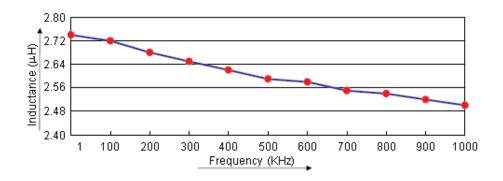


#### Note:

- 1. Wire Ø0.35mm × 1P 2UEF1/U 155°C
- 2. 8.5TS (Reference)

### **Electric Characteristics**

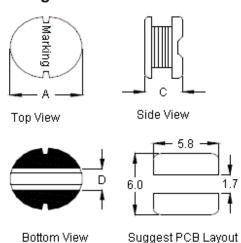




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## **Configurations and Dimensions**



Dimensions: Millimetres

Α	5.8mm	(Maximum)
В	3.9mm	(Maximum)
С	1.8mm	(Reference)

#### **Part Number Table**

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

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