## Inductor



## RoHS Compliant



### **Specifications:**

Inductance : 18µH Inductance Tolerance : ± 20% DC Resistance Max : 0.1Ω DC Current Rating : 1.6A : 15MHz Self Resonant Frequency Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 2.6mm Core Material : Ferrite : 7.8mm External Depth External Length / Height : 5.3mm External Width : 8mm Resonant Frequency : 1kHz

Series : MCSDC0805

### **Electrical Characteristics (at 25°C)**

1kHz 1V	L	18μH ±20%
at 25°C	DCR	100mΩ (Max.)
1kHz 1V Isat = 2.6A	L at Isat	L drops 35% (Maximum)
1kHz 1V Irms = 1.6A	ΔΤ	Temperature Rise 40°C (Max.)

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

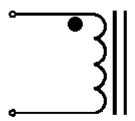
#### **Material List**

No.	Item	Material Description
1	Core	R5A CDR7.5 × 5 (ST) B3.4 F2.5
2	Wire	Ø0.3mm × 1P 2UEWF (155°C)
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

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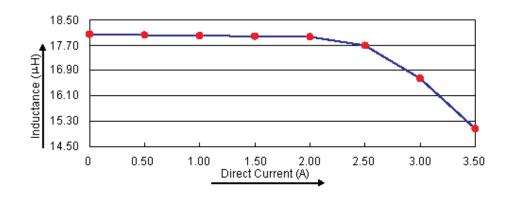
### **Schematic Diagram**

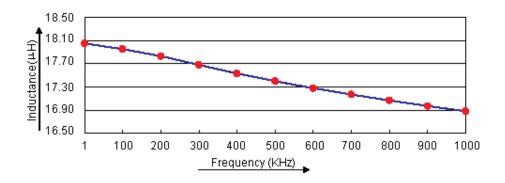


#### Note:

- 1. Wire Ø0.3mm × 1P 2UEWF155°C
- 2. 21.5TS (Reference)

#### **Electric Characteristics**

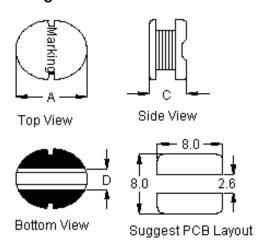




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#### **Configurations and Dimensions**



Dimensions: Millimetres

Α	7.8mm	(Maximum)
В	5.3mm	(Maximum)
С	2.6mm	(Reference)

#### **Part Number Table**

Description	Part Number
Inductor, 18µH, 20%, SMD	MCSDC0805-180MU

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