## Inductor



## RoHS Compliant



## **Specifications:**

Inductance : 12µH Inductance Tolerance : ± 20% DC Resistance Max : 0.36Ω DC Current Rating : 2.45A : SMD Inductor Case Style No. of Pins Lead Spacing : 3.5mm Core Material : Ferrite External Depth : 9mm External Length / Height : 5.4mm External Width : 10.2mm Resonant Frequency : 100kHz Series : MCSD105

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

100kHz 0.25V	L	12μH ±20%
at 25°C	DCR	36mΩ (Max.)
100kHz 0.25V Irms = 2.45A	ΔΤ	Temperature Rise 40°C (Max.)

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

#### **Material List**

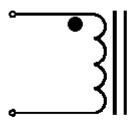
No.	Item	Material Description
1	Core	R5A CDR10 × 5.4(ST) B3.8 F2.6
2	Wire	Ø0.5mm × 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%



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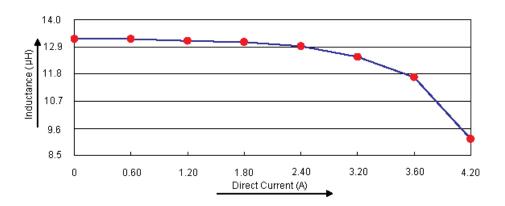
## **Schematic Diagram**

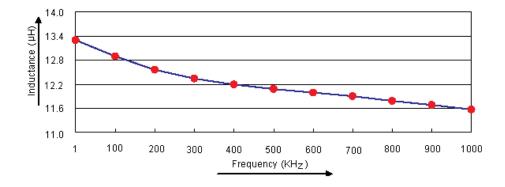


#### Note:

- 1. Wire Ø0.5mm × 1P 2UEWF 155°C
- 2. 15.5TS (Reference)

#### **Electric Characteristics**





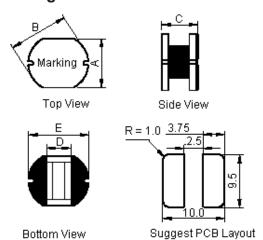
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### **Configurations and Dimensions**



Dimensions : Millimetres

Α	9 ±0.4 mm	-
В	10 ±0.4 mm	-
С	5.4 ±0.5 mm	-
D	3.5mm	(Reference)
E	10.2 ±0.5 mm	-

#### **Part Number Table**

Description	Part Number
Inductor, 12µH, 2.45A, ±20%	MCSD105-120MU

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