Inductor







Specifications:

Inductance : 12µH Inductance Tolerance : ± 20% DC Resistance Max : 0.12Ω DC Current Rating : 1.4A Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 2mm Core Material : Ferrite External Depth : 5.2mm External Length / Height : 4.5mm External Width : 5.8mm Resonant Frequency : 100kHz Series : MCSD54

Electrical Characteristics (at 25°C)

100kHz 0.25V	L	12μH ±20%
at 25°C	DCR	120mΩ (Max.)
100kHz 0.25V Irms = 1.4A	ΔΤ	Temperature Rise 40°C (Max.)

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

Material List

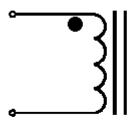
No.	Item	Material Description
1	Core	R5A CDR5.8 × 4.5(ST) B2.4 F2.3
2	Wire	Ø0.3mm × 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%



Inductor



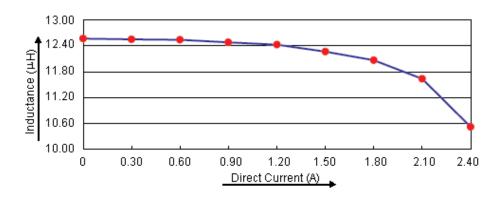
Schematic Diagram

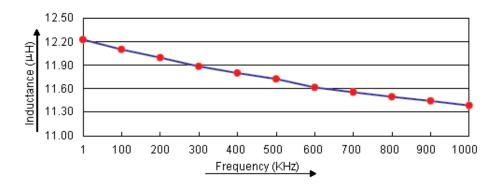


Note:

- 1. Wire Ø0.3mm × 1P 2UEWF 155°C
- 2. 20.5TS (Reference)

Electric Characteristics



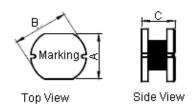


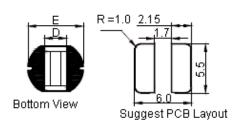


Inductor



Configurations and Dimensions





Dimensions: Millimetres

А	5.2 ±0.3mm	-
В	5.8 ±0.3mm	-
С	4.5 ±0.35mm	-
D	2mm	(Reference)
E	5.8 ±0.5mm	-

Part Number Table

Description	Part Number
Inductor, 12µH, 1.4A, 20%	MCSD54-120MU

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