

Inductor

multicomp



Specifications:

Inductance	: 120 μ H
Inductance Tolerance	: $\pm 10\%$
DC Resistance Max	: 0.47 Ω
DC Current Rating	: 660mA
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 3mm
Core Material	: Ferrite
External Depth	: 7mm
External Length / Height	: 5mm
External Width	: 7.8mm
Resonant Frequency	: 100kHz
Series	: MCSD75

Electrical Characteristics (at 25°C)

100kHz 0.25V	L	120 μ H $\pm 10\%$
at 25°C	DCR	470m Ω (Max.)
100kHz 0.25V I _{rms} = 0.66A	ΔT	Temperature Rise 40°C (Max.)

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

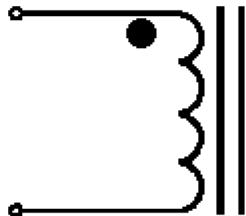
Material List

No.	Item	Material Description
1	Core	R5A CDR7.8 x 5(ST) B2.9 F2.5
2	Wire	\varnothing 0.25mm x 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

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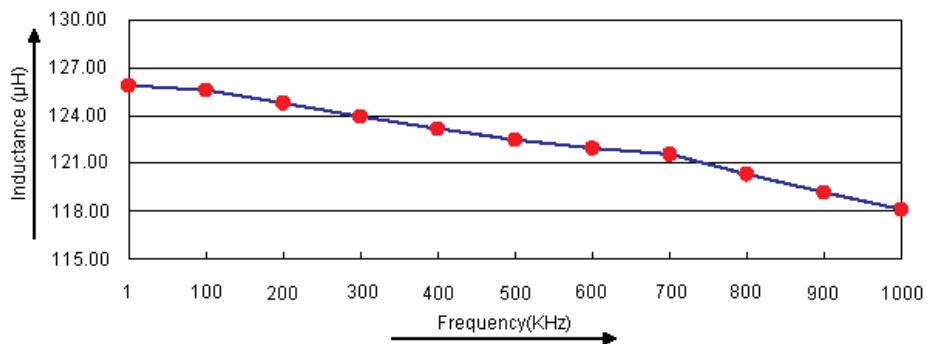
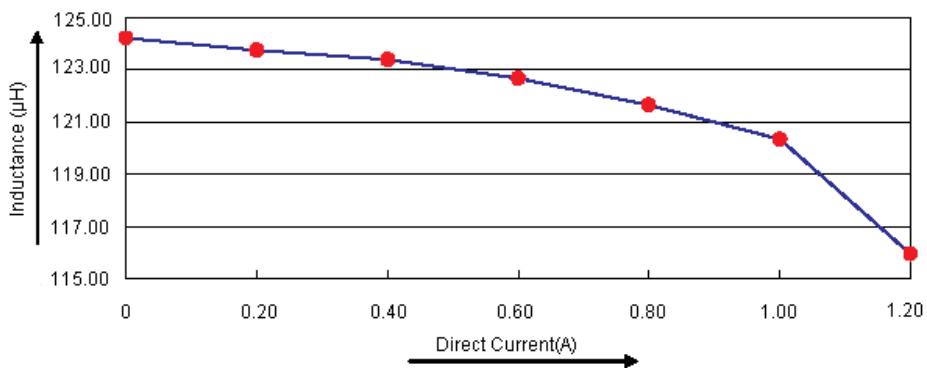
Schematic Diagram



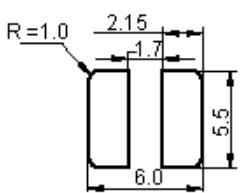
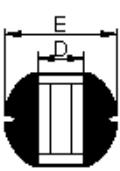
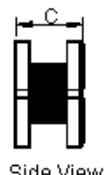
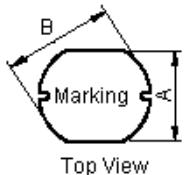
Note:

1. Wire Ø0.25mm × 1P 2UEWF 155°C
2. 56.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



Bottom View

Suggest PCB Layout

A	$7 \pm 0.3\text{mm}$	-
B	$7.8 \pm 0.3\text{mm}$	-
C	$5 \pm 0.5\text{mm}$	-
D	3mm	(Reference)
E	$8 \pm 0.5\text{mm}$	-

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 120 μH , 660mA, 10%	MCSD75-121KU

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