

Specifications:

Inductance	: 82 μ H
Inductance Tolerance	: \pm 10%
DC Resistance Max	: 0.6 Ω
DC Current Rating	: 580mA
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	: MCS54

Electrical Characteristics (at 25°C)

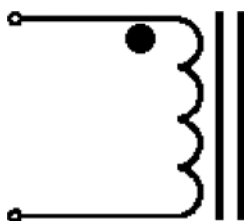
100kHz 0.25V	L	82 μ H \pm 10%
at 25°C	DCR	0.6 Ω (Max.)
100kHz 0.25V I _{rms} = 0.58A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR5.8 \times 4.5(ST) B2.4 F2.3
2	Wire	\varnothing 0.16mm \times 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

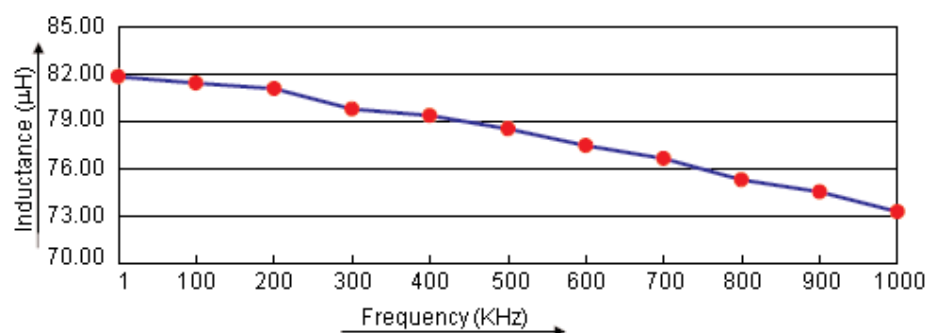
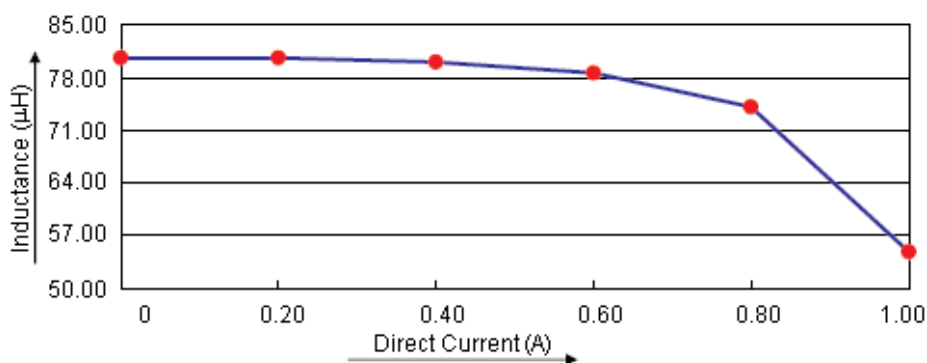
Schematic Diagram



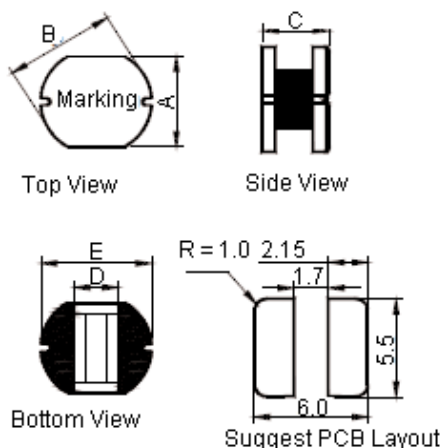
Note:

1. Wire $\varnothing 0.16\text{mm} \times 1\text{P}$ 2UEWF 155°C
2. 53.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



A	5.2 ±0.3mm	-
B	5.8 ±0.3mm	-
C	4.5 ±0.35mm	-
D	2mm	(Reference)
E	5.8 ±0.5mm	-

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 82µH, 580mA, 10%	MCSD54-820KU

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