

## Specifications:

Inductance	: 270 $\mu$ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 1.11 $\Omega$
DC Current Rating	: 420mA
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)

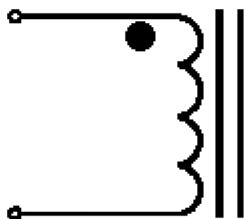
100kHz 0.25V	L	270 $\mu$ H $\pm$ 10%
at 25°C	DCR	1.11 $\Omega$ (Max.)
100kHz 0.25V I <sub>rms</sub> = 0.42A	$\Delta$ T	Temperature Rise 40°C (Max.)

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

## Material List

No.	Item	Material Description
1	Core	R5A CDR7.8 $\times$ 5(ST) B2.9 F2.5
2	Wire	$\varnothing$ 0.2mm $\times$ 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

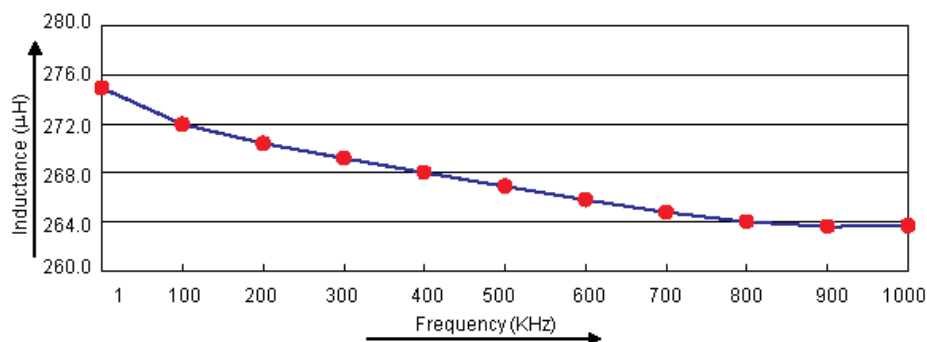
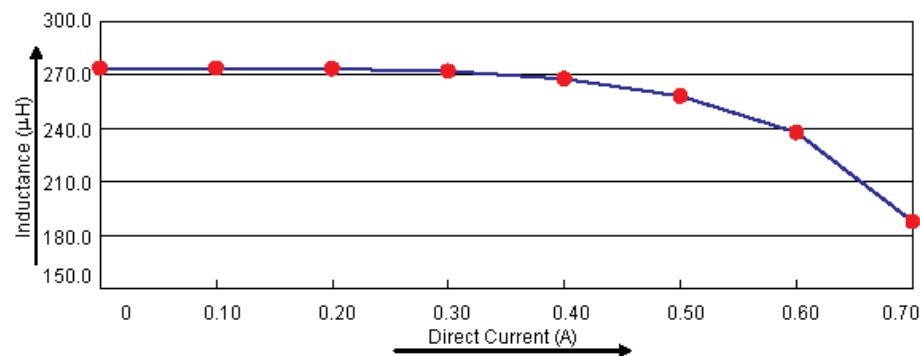
## Schematic Diagram



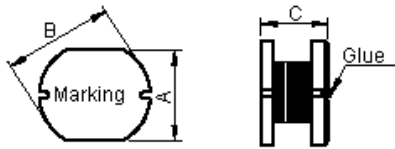
### Note:

1. Wire  $\varnothing 0.2\text{mm} \times 1\text{P 2UEWF } 155^\circ\text{C}$
2. 85.5TS (Reference)

## Electric Characteristics

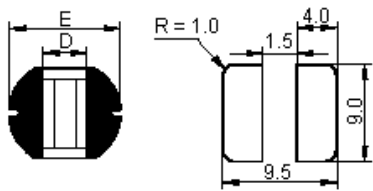


## Configurations and Dimensions



Top View

Side View



Bottom View

Suggest PCB Layout

A	7 ±0.3mm	-
B	7.8 ±0.3mm	-
C	5 ±0.5mm	-
D	3mm	(Reference)
E	8 ±0.5mm	-

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 270µH, 420mA, 10%	MCSD75-271KU

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