

RoHS
Compliant



Specifications:

Inductance	: 470 μ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 1.96 Ω
DC Current Rating	: 340mA
Self Resonant Frequency	: 4MHz
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 2.6mm
Core Material	: Ferrite
External Depth	: 7.8mm
External Length / Height	: 5.3mm
External Width	: 8mm
Resonant Frequency	: 1kHz
Series	: MCSDC0805

Electrical Characteristics (at 25°C)

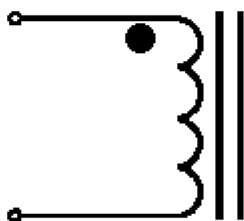
1kHz 1V	L	470 μ H $\pm$ 10%
at 25°C	DCR	1.96 Ω (Max.)
1kHz 1V I_{sat} = 0.5A	L at I_{sat}	L drops 35% (Maximum)
1kHz 1V I_{rms} = 0.34A	ΔT	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR7.5 $\times$ 5 (ST) B3.4 F2.5
2	Wire	$\varnothing$ 0.15mm $\times$ 1P 2UEWF (155°C)
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

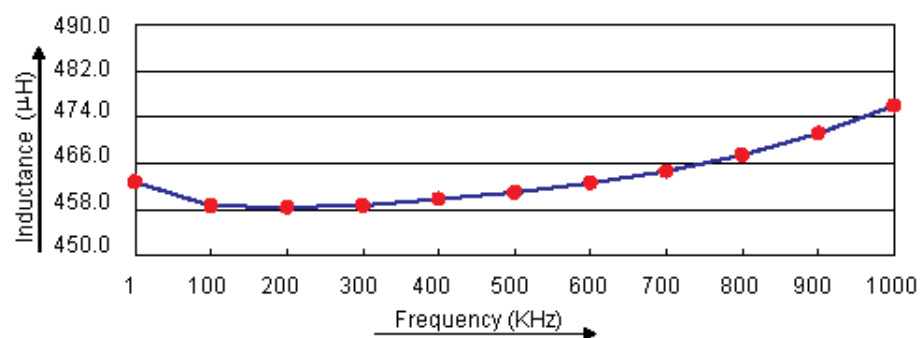
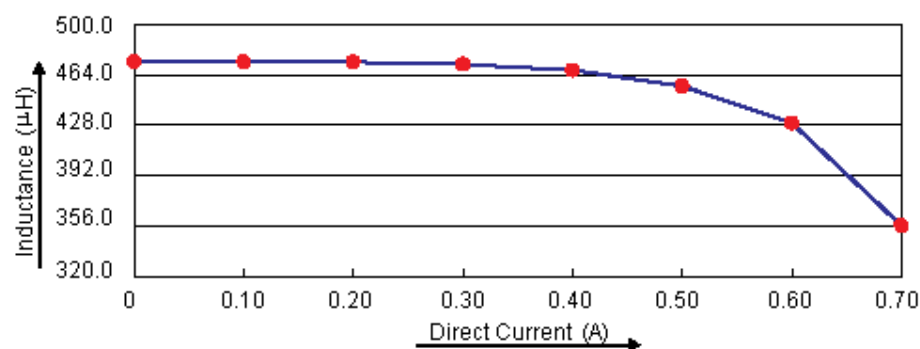
Schematic Diagram



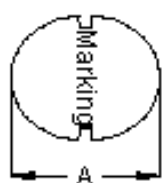
Note:

1. Wire $\varnothing 0.15\text{mm} \times 1\text{P}$ 2UEWF155°C
2. 109.5TS (Reference)

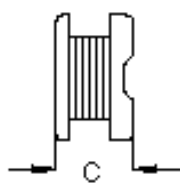
Electric Characteristics



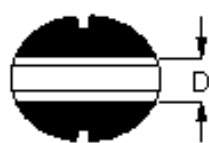
Configurations and Dimensions



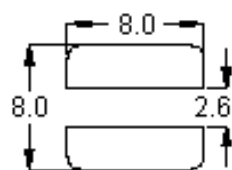
Top View



Side View



Bottom View



Suggest PCB Layout

A	7.8mm	(Maximum)
B	5.3mm	(Maximum)
C	2.6mm	(Reference)

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 470μH, 10%, SMD	MCSDC0805-471KU

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