



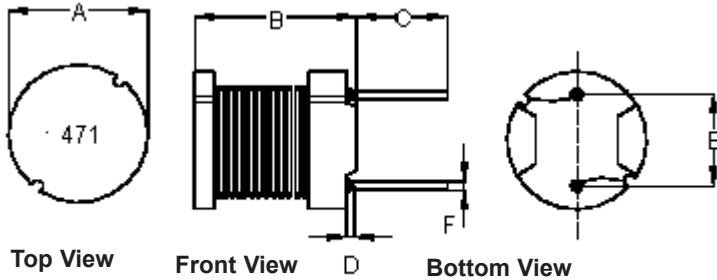
PART NO.

MCSCH895-471 KU

REVISIONS

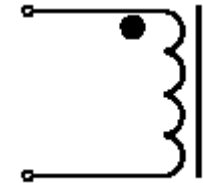
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	MEG	20/4/11		04/5/11

Configurations and Dimensions



A	7.8 ±0.5 mm	-
B	9.5 ±0.5 mm	-
C	5 ±1 mm	-
D	3 mm	(Max.)
E	5 ±0.5 mm	-
F	∅0.7 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.25mm
2. 123.5TS (Reference) C.W

Note : White dot of marking indicates the start terminal of winding

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	470 μH ±10%
T <sub>a</sub> = 25°C	DCR	890 mΩ (Max.)
1 KHz 0.25 V I <sub>rms</sub> = 0.43 A	ΔT	Temperature rise 40°C(Max.)

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	7.8 ±0.5	9.5 ±0.5	5 ±1	3 (Max.)	5 ±0.5	∅0.7 (Ref.)
1	7.8	9.39	5.16	1.33	4.99	0.69
2	7.81	9.43	5.18	1.28	5.17	0.71
3	7.84	9.45	5.43	1.36	4.97	0.69
4	7.8	9.44	5.2	1.45	5.1	0.7
5	7.81	9.48	5.14	1.47	5.12	0.69
Average	7.81	9.44	5.22	1.38	5.07	0.7

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ARU

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MEG

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DATE:

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04/5/11

DRAWING TITLE:

**Inductor - Radial Leaded**

SIZE  
**A**

DWG NO.

**M10003003**

ELECTRONIC FILE  
MCSCH895-471KU

REV  
**A**

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



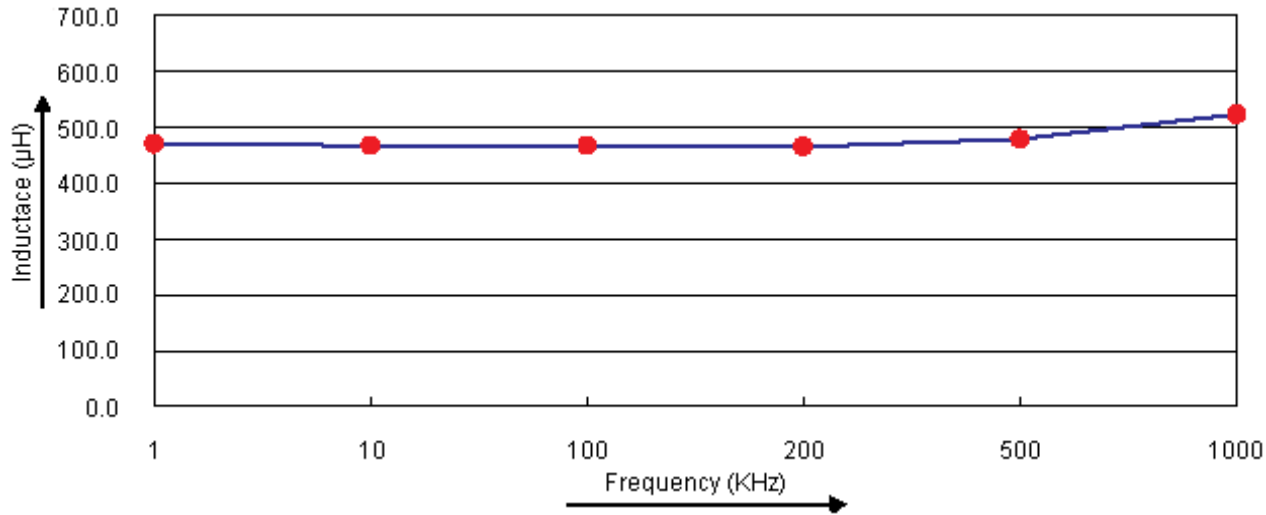
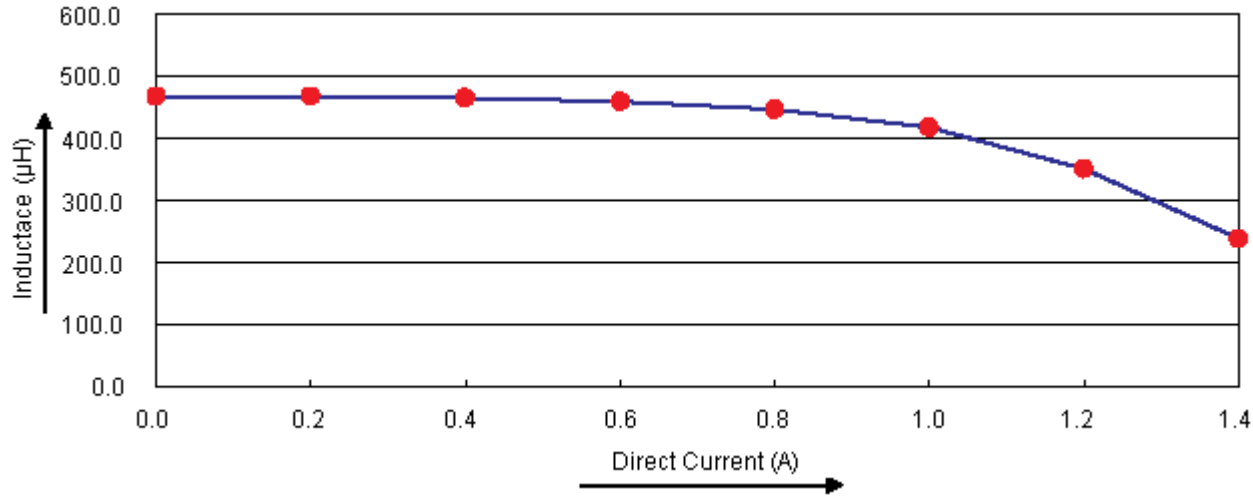
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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔT
Condition	1 KHz 0.25 V	at 25°C	1 KHz 0.25 V I <sub>rms</sub> = 0.43 A
Specification	470 ±10%	890 (Max.)	Temperature rise 40°C (Max.)
1	468.76	850	OK
2	469.46	849.7	
3	468.58	832.4	
4	468.98	838.9	
5	468.3	839.8	
Average	468.82	842.16	OK

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	04/5/11

DRAWING TITLE:

**Inductor - Radial Leaded**

SIZE <b>A</b>	DWG NO. <b>M10003003</b>	ELECTRONIC FILE MCSCH895-471KU	REV <b>A</b>
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-471KU

REVISIONS

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Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-55°C to +130°C	Including temperature rise due to self-generated heat.
Storage condition	Ambient temperature : 0°C to 40°C Humidity : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.
Moisture sensitivity	Appearance : No abnormality No damage DCR change : Within ±5% Inductance change : Within ±5%	According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hrs Recovery : 1 to 2 hours of recovery under the standard condition after the removal from the test chamber.
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 95% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hrs Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0 / -0.5 s

Material List

No.	Item	Material Description
1	Core	F4F DR2W7.8 × 9.5 (SW) RCH B4 F5.4 P5
2	Wire	Ø0.25 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 470µH, 10%, Radial Leaded	MCSCH895-471KU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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**DRAWING TITLE:**

**Inductor - Radial Leaded**

<b>SIZE</b> A	<b>DWG NO.</b> M10003003	<b>ELECTRONIC FILE</b> MCSCH895-471KU	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 3 OF 3</b>