



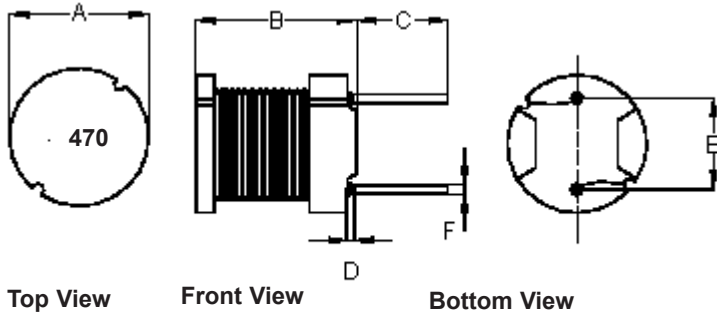
PART NO.

MCSCH895-470KU

REVISIONS

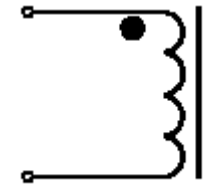
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	SHA	20/4/11		04/5/11

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	Ø0.6 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.4mm
2. 38.5TS (Reference) C.W

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

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	47 µH ±20%
T _a = 25°C	DCR	120 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 1.3 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	Ø0.6 (Ref.)
1	7.81	9.49	5.16	1.33	4.99	0.69
2	7.8	9.43	5.18	1.38	5.12	0.71
3	7.84	9.45	5.43	1.36	4.9	0.69
4	7.8	9.44	5.15	1.45	5.14	0.7
5	7.83	9.58	5.24	1.47		
Average	7.82	9.48	5.23	1.4	5.06	0.7

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ARU	20/04/11
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	04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10003002	ELECTRONIC FILE MCSCH895-470KU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 3	



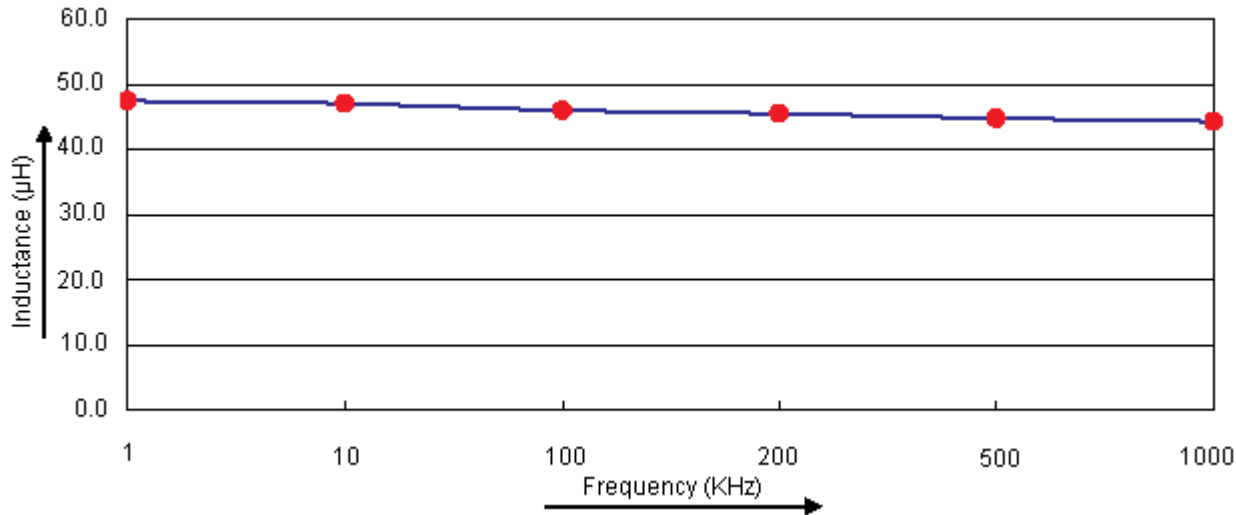
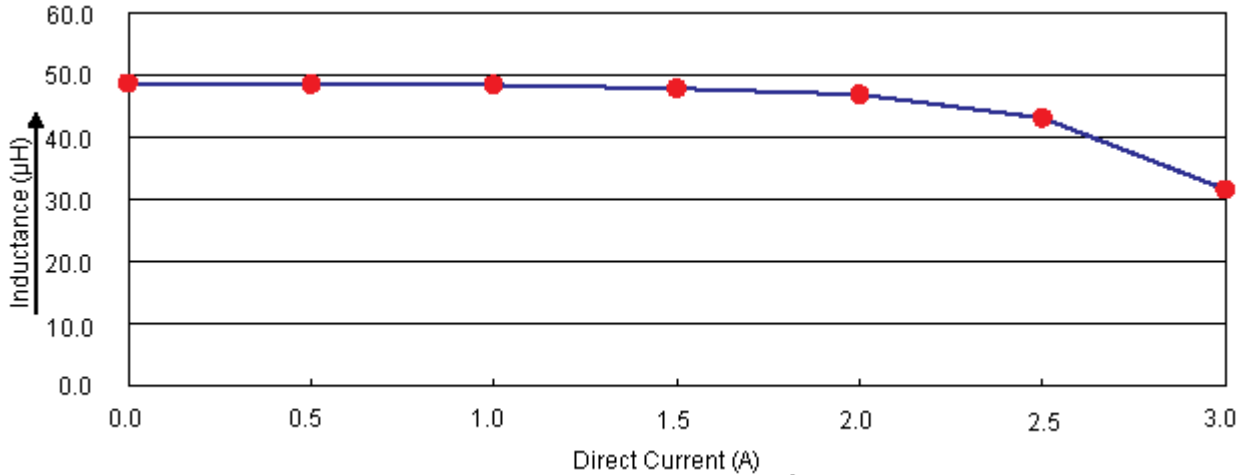
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Electric Characteristics



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 _{rms} = 1.3 A
Specification	47 ±20%	120 (Max.)	Temperature rise 40°C (Max.)
1	49.46	98.56	OK
2	49.52	99.26	
3	49.24	99.21	
4	49.16	98.87	
5	49.3	98.88	
Average	49.34	98.96	OK

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DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10003002	ELECTRONIC FILE MCSCH895-470KU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-470KU

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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	F6D DR2W7.8 × 9.5 (SW) RCH B3.75 F5.6 P5
2	Wire	Ø0.4 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 47µH, 10%, Radial Leaded	MCSCH895-470KU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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