



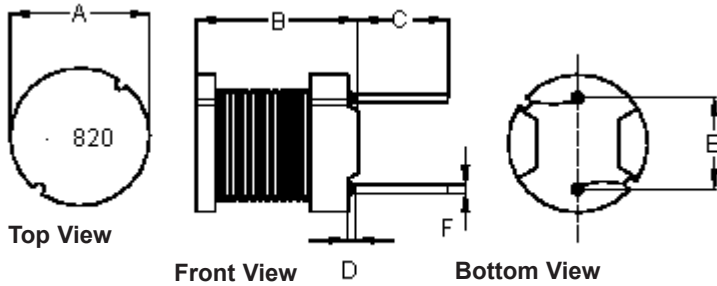
PART NO.

MCSCH895-820KU

REVISIONS

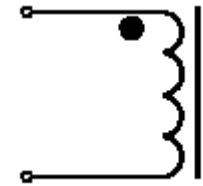
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	SHA	20/4/11		04/5/11

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	Ø0.7 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.35mm
2. 51.5TS (Reference) C.W

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

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	Ø0.7 (Ref.)
1	7.74	9.4	5.23	1.54	5.21	0.63
2		9.47	5.26	1.57	5.16	0.62
3	7.73	9.43	5.31	1.56	5.14	0.64
4	7.75	9.47	5.27	1.53	5.09	0.62
5	7.76	9.48	5.3	1.51	5.17	0.63
Average	7.74	9.45	5.27	1.54	5.15	0.63

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	82 µH ±10%
T _a = 25°C	DCR	155 mΩ ±20%
1 KHz 0.25 V I _{rms} = 1.6 A	ΔT	Temperature rise 40°C (Max.)

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

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ARU

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SHA

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DATE:

20/04/11

DATE:

20/04/11

DATE:

04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10003010

ELECTRONIC FILE
MCSCH895-820KU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



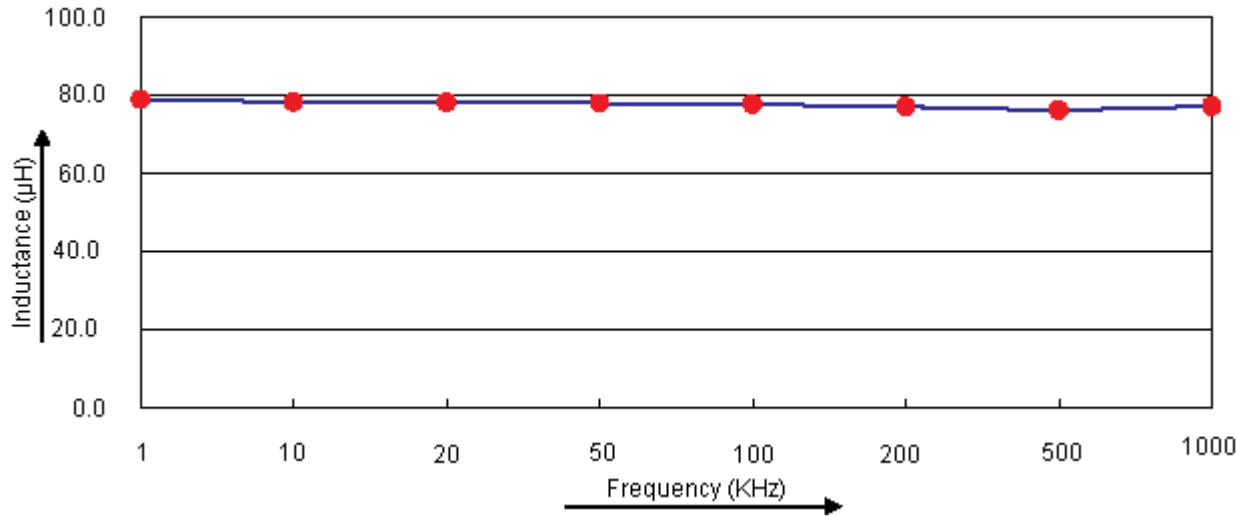
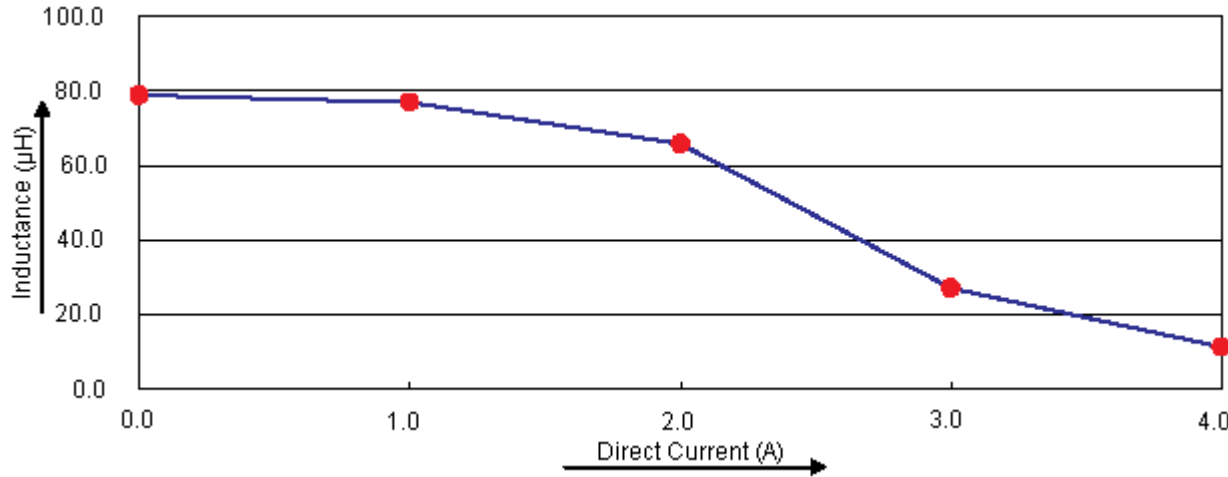
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Electric Characteristics



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} = 1.6 A
Specification	82 ±10%	155 ±20%	Temperature rise 40°C (Max.)
1	79.2	157.12	OK
2	78.86	154.81	
3	78.76	156.22	
4	78.82	153.99	
5	79.04	154.99	
Average	78.94	155.43	OK

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APPROVED BY:	DATE:
	04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10003010	ELECTRONIC FILE MCSCH895-820KU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-820KU

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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 B3.6 F5.4 P5
2	Wire	Ø0.35 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 82µH, 10%, Radial Leaded	MCSCH895-820KU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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Inductor - Radial Leaded

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SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3