



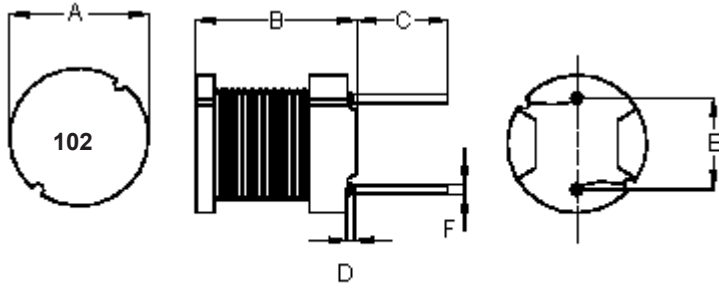
PART NO.

MCSCH895-102KU

REVISIONS

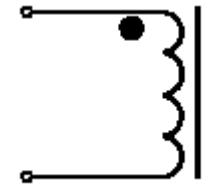
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	BHA	20/4/11		04/5/11

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



Top View Front View Bottom View

- Note:**
1. Wire UEFN/U (155°C) Ø0.20mm
 2. 180.5TS (Reference) C.W

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

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	1 mH ±10%
T _a = 25°C	DCR	1.8 Ω (Max.)
1 KHz 0.25 V I _{rms} = 0.3 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	Ø0.7 (Ref.)
1	7.81	9.45	5.2	0.46	5.02	0.7
2	7.83		5.15	0.5	5	
3	7.91	9.43	5.03	0.7	4.99	0.68
4	7.94	9.47	5.1	0.38	4.98	0.69
5	7.86	9.46	5.14	0.42	4.99	0.68
Average	7.87	9.45	5.12	0.49	5	0.69

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	04/5/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10002992	ELECTRONIC FILE MCSCH895-102KU	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 1 OF 3



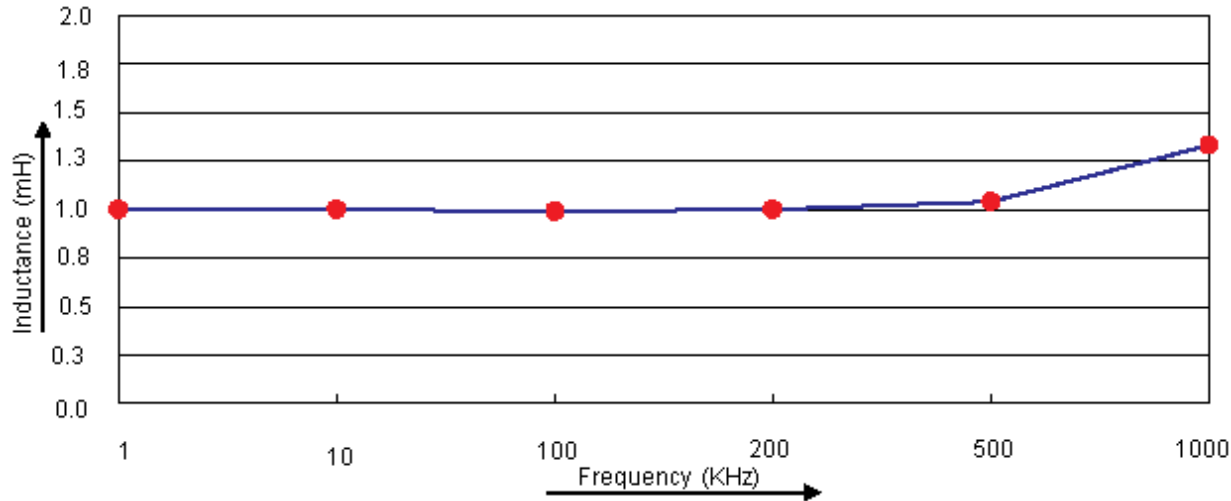
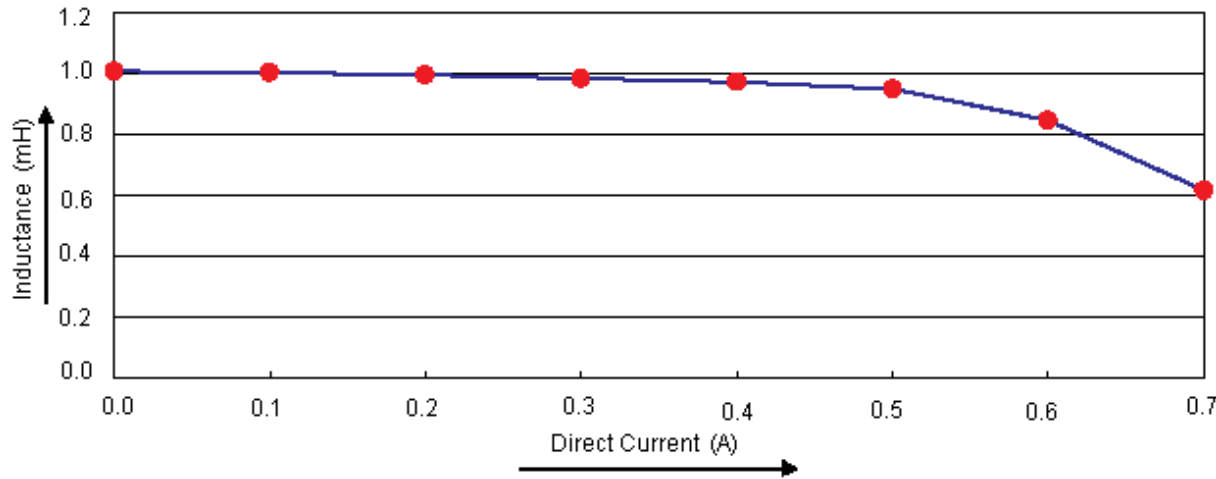
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Electric Characteristics



Test Data for Electrical

Test Item	L mH	DCR Ω	ΔT
Condition	1 KHz 0.25 V	at 25°C	1 KHz 0.25 V I _{rms} = 0.3 A
Specification	1 ±10%	1.8 (Max.)	Temperature rise 40°C (Max.)
1	1	1.77	OK
2	0.98	1.76	
3	0.99		
4	0.985	1.75	
5	0.989	1.76	
Average	0.99	1.76	OK

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DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10002992	ELECTRONIC FILE MCSCH895-102KU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-102KU

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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°C ±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	Ø0.20 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 1mH, 10%, Radial Leaded	MCSCH895-102KU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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Inductor - Radial Leaded

SIZE
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DWG NO.

M10002992

ELECTRONIC FILE
MCSCH895-102KU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3