



PART NO.

MCSCH895-1R0MU

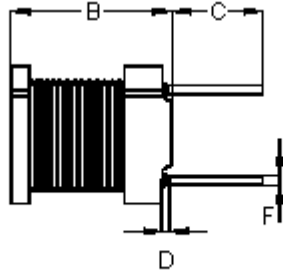
REVISIONS

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

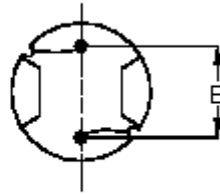
Configurations and Dimensions



Top View



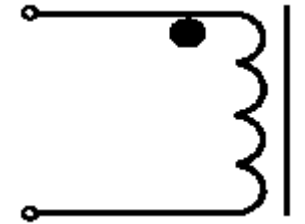
Front View



Bottom View

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) Ø0.7mm
2. 5.5TS (Reference) C.W



Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	1 µH ±20%
T _a = 25°C	DCR	6 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 7.5 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	7.89	9.36	4.96	1.15	4.96	0.62
2	7.85	9.34	5.36	1.27	4.8	0.63
3		9.38	4.98	1.2	4.92	0.62
4	7.89		5.11	1.11	4.87	0.63
5	7.87	9.34	5.02	1.23	4.94	0.62
Average	7.87	9.36	5.09	1.19	4.9	0.62

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DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10002779

ELECTRONIC FILE
MCSCH895-1R0MUREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



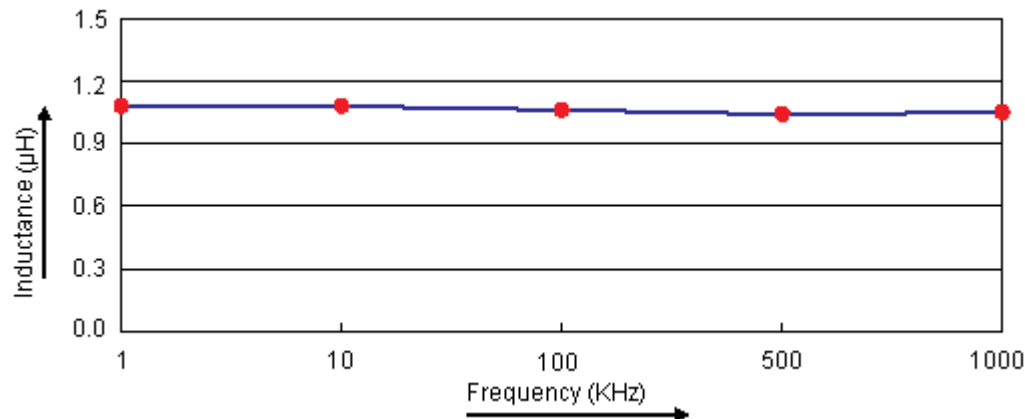
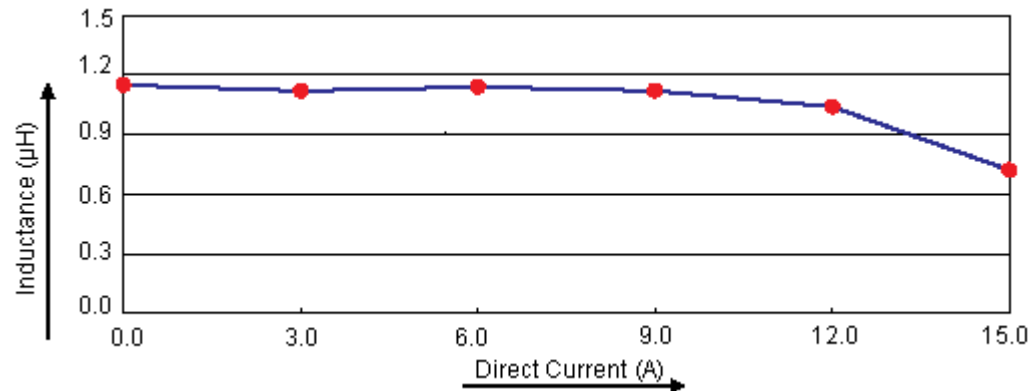
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Electric Characteristics



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} = 7.5 A
Specification	1 ±20%	6 (Max.)	Temperature rise 40°C (Max.)
1	1.09	4.34	OK
2	1.05	4.37	
3	1.07	4.43	
4	1.1	4.35	
5	1.09	4.3	
Average	1.08	4.36	OK

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SHEET: 2 OF 3



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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	P3B DRWW7.8 × 9.3RFB B3.5 F5 P5
2	Wire	Ø0.7 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 1µH, 20%, Radial Leaded	MCSCH895-1R0MU

<http://www.element14.com><http://www.farnell.com><http://www.newark.com>

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