



PART NO.

MCSCH895-6R8MU

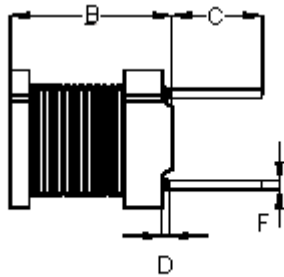
REVISIONS

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

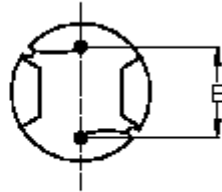
Configurations and Dimensions



Top View



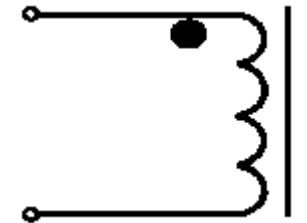
Front View



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	Ø0.7 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.55mm
2. 14.5TS (Reference) C.W



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

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	6.8 µH ±20%
T _a = 25°C	DCR	30 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 3.3 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	7.87	9.48	5.04	2.24	4.96	0.68
2	7.72	9.47	5.15	2.12	4.86	
3	7.85	9.48	5.08	2.06	4.98	0.67
4	7.7	9.47	5.36	1.94	5.04	0.68
5	7.85	9.48	5.24	2.12	5.01	
Average	7.8	9.48	5.17	2.1	4.97	0.68

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20/04/11

DATE:

04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10003235

ELECTRONIC FILE
MCSCH895-6R8MU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



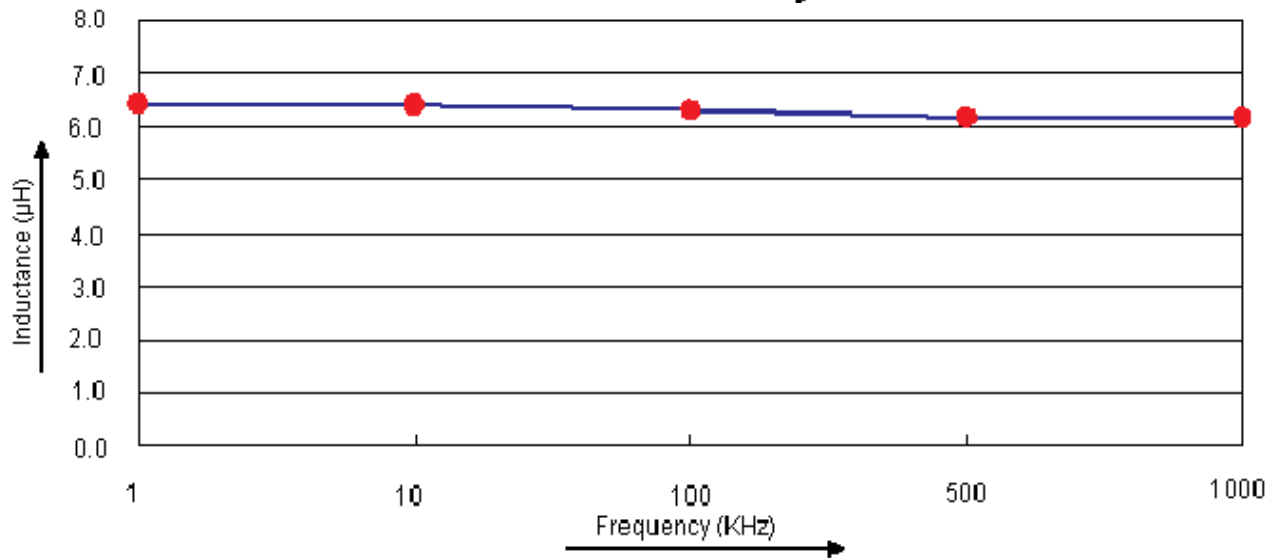
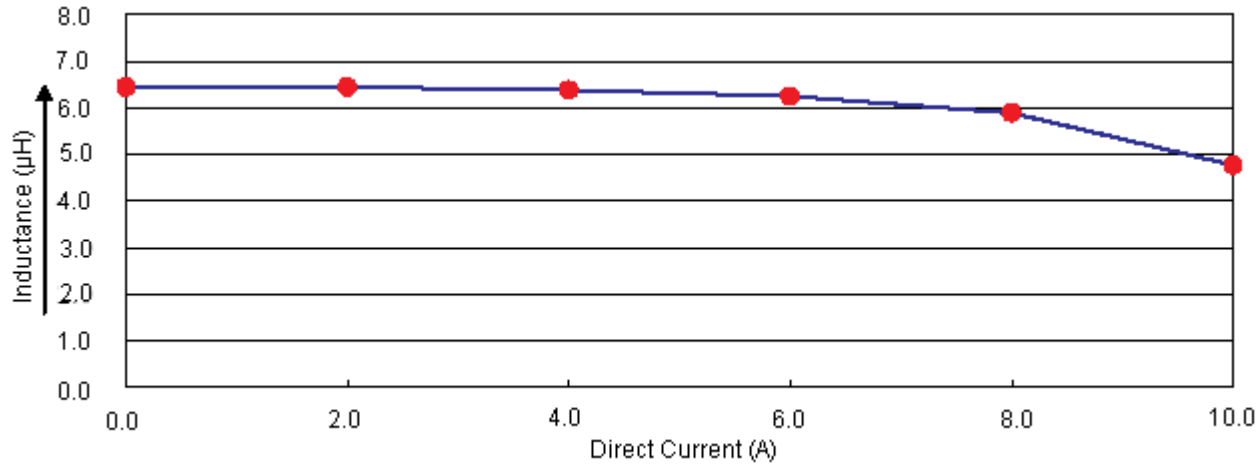
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Electric Characteristics



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} = 3.3 A
Specification	6.8 ±20%	30 (Max.)	Temperature rise 40°C (Max.)
1	6.42	20.35	OK
2	6.46	19.69	
3	6.49	20.04	
4	6.48	19.89	
5	6.45	19.99	
Average	6.46	19.99	OK

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DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10003235	ELECTRONIC FILE MCSCH895-6R8MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

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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 DRWW7.8 × 9.5 (SW) RCH B4 F5.4 P5
2	Wire	Ø0.55 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 6.8µH, 20%, Radial Leaded	MCSCH895-6R8MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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