



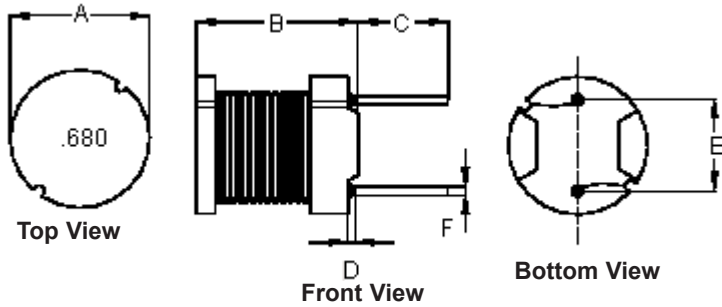
PART NO.

MCSCH895-680KU

REVISIONS

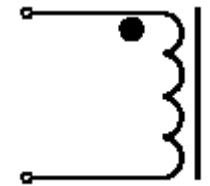
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	SHA	20/4/11		04/5/11

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) Ø0.37mm
2. 46.5TS (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	7.75	9.51	5.32	2.1	5.2	0.61
2	7.73	9.49		2.13	5.13	0.63
3	7.72	9.51	5.25	2.15	5.16	0.6
4	7.71	9.49	5.27	2.32	5.23	0.62
5	7.73	9.53	5.23	2.06	5.25	0.63
Average	7.73	9.51	5.28	2.15	5.19	0.62

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	68 µH ±10%
T _a = 25°C	DCR	160 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 2.1 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:

20/4/11

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20/4/11

DATE:

04/5/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10003008

ELECTRONIC FILE
MCSCH895-680KU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



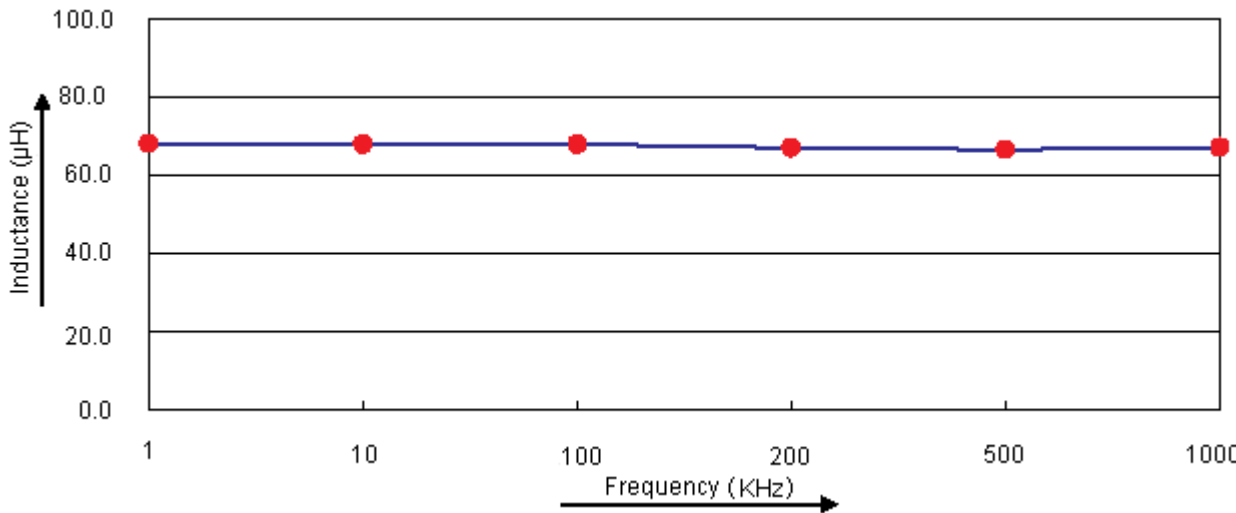
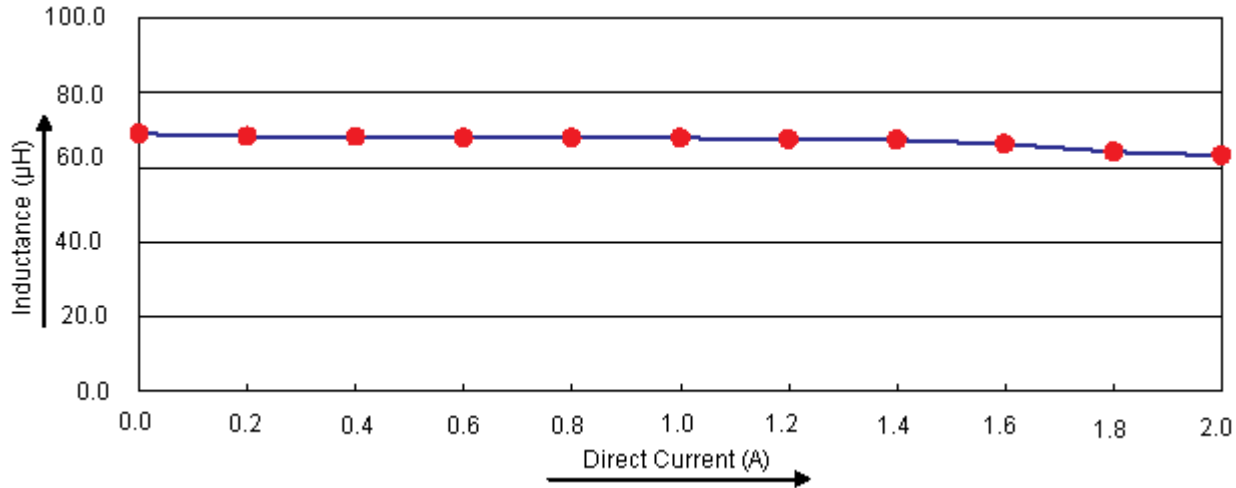
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Electric Characteristics



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} = 2.1 A
Specification	68 ±10%	160 (Max.)	Temperature rise 40°C (Max.)
1	70.6	139.92	OK
2	71.1	139.41	
3	70.74	139.72	
4	70.76	139.53	
5	70.98	140.02	
Average	70.84	139.72	OK

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	04/5/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10003008	ELECTRONIC FILE MCSCH895-680KU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-680KU

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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	Ø0.37 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 68µH, 10%, Radial Leaded	MCSCH895-680KU

<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