



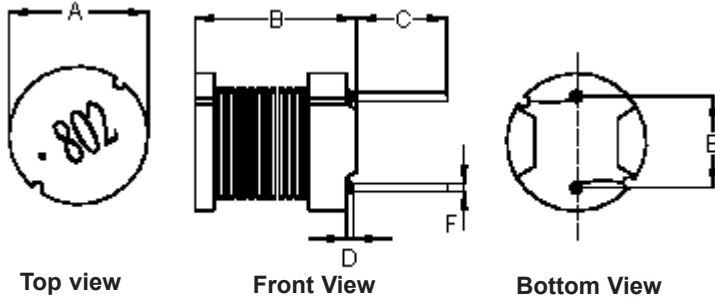
PART NO.

MCSCH110-802MU

REVISIONS

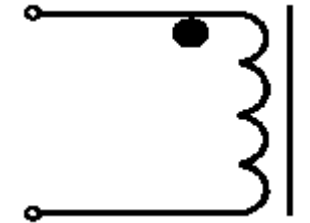
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	SID	20/4/11	SHA	20/4/11		04/5/11

Configurations and Dimensions



A	10 ±0.5 mm	-
B		-
C	14 ±2 mm	-
D	1 mm	(Max.)
E	6.5 ±0.5 mm	-
F	∅0.8 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.14mm
2. 435.5TS (Reference) C.W

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

Electrical Characteristics

Test Condition		
10 KHz 0.25 V	L	8 μH ±20%
T _a = 25°C	DCR	13 Ω (Max.)
10 KHz 0.25 V I _{rms} = 220 mA	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	10 ±0.5	10 ±0.5	14 ±2	1 (Max.)	6.5 ±0.5	∅0.8 (Ref.)
1	10	10.04	14.89	0.51	6.45	0.78
2	9.96	9.96	14.64	0.36		0.79
3		9.98	14.63	0.47	6.46	0.78
4	9.92	9.92	14.86	0.58	6.52	0.79
5	10	9.98	15.07	0.44	6.48	
Average	9.97	9.98	14.82	0.47	6.47	0.79

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SID

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SHA

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20/04/11

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04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10002631

ELECTRONIC FILE
MCSCH110-802MU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



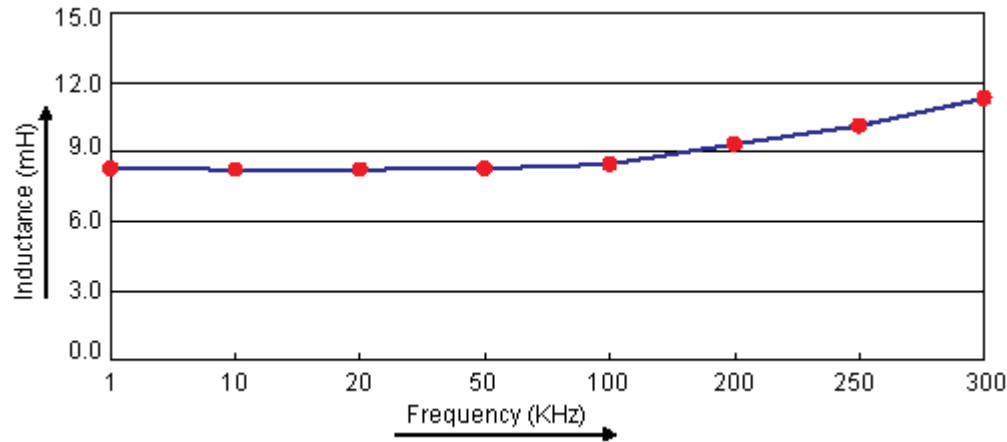
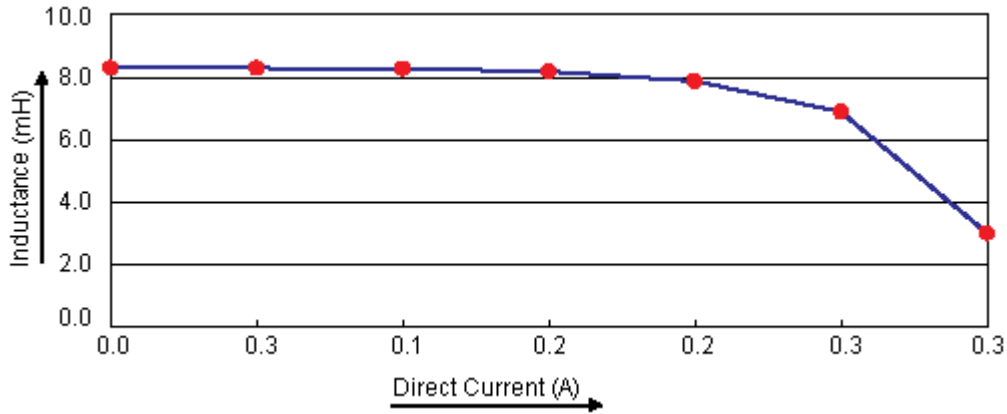
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Electric Characteristics



Test Data for Electrical

Test Item	L mH	DCR Ω	ΔT
Condition	10 KHz 0.25 V	at 25°C	10 KHz 0.25 V I _{rms} = 220 mA
Specification	8 ±20%	13 (Max.)	Temperature rise 40°C (Max.)
1	10.55	8.27	OK
2	10.58	8.25	
3	10.56	8.26	
4	10.55	8.27	
5	10.56	8.26	
Average	10.56	8.26	OK

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	04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10002631	ELECTRONIC FILE MCSCH110-802MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH110-802MU

REVISIONS

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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 DRWW 10 × 10 RFB B4.6 F5 P6.5
2	Wire	Ø0.14 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 8mH, 20%, Radial Leaded	MCSCH110-802MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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