



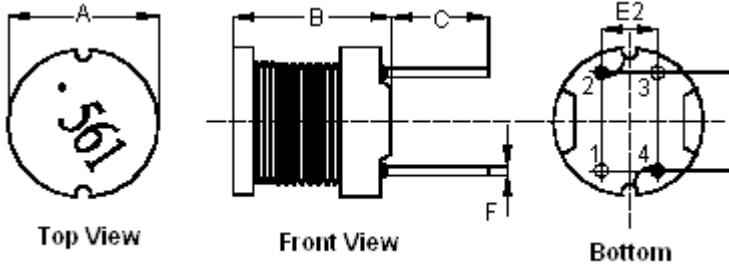
PART NO.

MCSCH110-561KU

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	5 ±0.5 mm	-
E1		-
E2	4 ±0.5 mm	-
F	Ø0.7 mm	(Ref.)

Schematic Diagram



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

Note:

1. Wire UEFN/U (155°C) Ø0.28mm
2. 112.5TS (Reference) C.W

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	560 µH ±10%
T _a = 25°C	DCR	1 Ω (Max.)
1 KHz 0.25 V I _{rms} = 0.95 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	E1 mm	E2 mm	F mm
Specification	10 ±0.5	10 ±0.5	5 ±0.5	5 ±0.5	4 ±0.5	Ø0.7 (Ref.)
1	10.25	9.94	5.11	5.03	4.12	0.69
2	10.19	9.82	5.05	5.04	3.98	0.67
3	10.18	9.9	4.98	4.98	3.96	0.7
4	10.1	9.83	5.01	4.97	3.98	0.68
5	10.35	9.98	5.11	5.06	4.08	0.69
Average	10.21	9.89	5.05	5.02	4.02	0.69

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20/04/11

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04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10002629

ELECTRONIC FILE
MCSCH110-561KU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



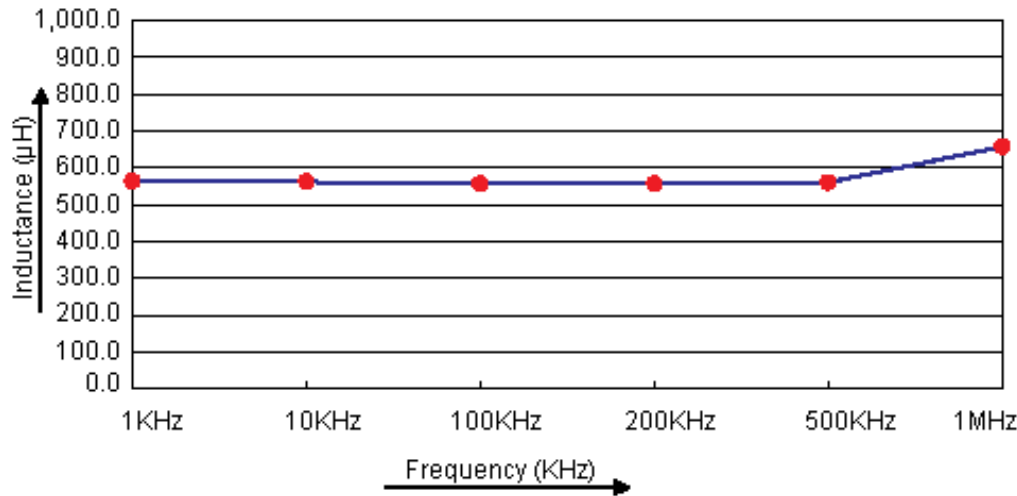
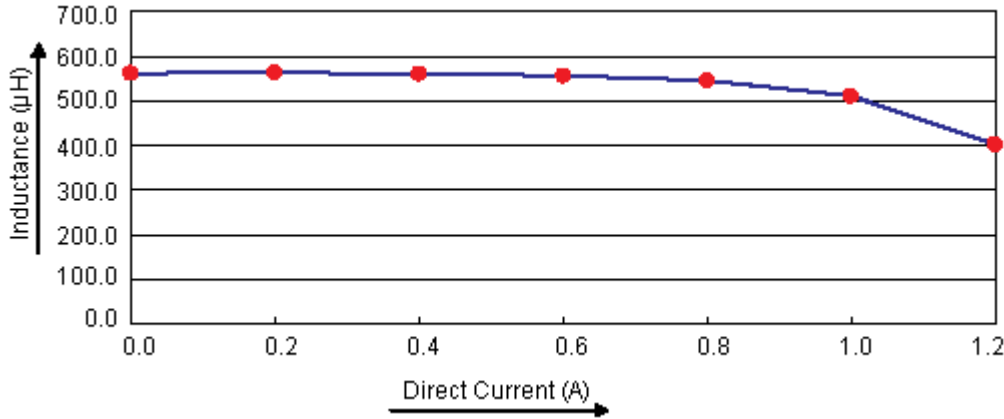
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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR Ω	ΔT
Condition	1 KHz 0.25 V	at 25°C	1 KHz 0.25 V I _{rms} = 0.95 A
Specification	560 ±10%	1 (Max.)	Temperature rise 40°C (Max.)
1	564.72	0.703	OK
2	564.01	0.693	
3	562.09	0.689	
4	558.26	0.696	
5	563.17	0.691	
Average	562.45	0.694	OK

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APPROVED BY:	DATE:
	04/05/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10002629	ELECTRONIC FILE MCSCH110-561KU	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 3



PART NO.

MCSCH110-561KU

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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	DL5 DR4W 10 × 10 RSN B4.5 F5
2	Wire	Ø0.28 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 560µH, 10%, Radial Leaded	MCSCH110-561KU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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SHEET: 3 OF 3