



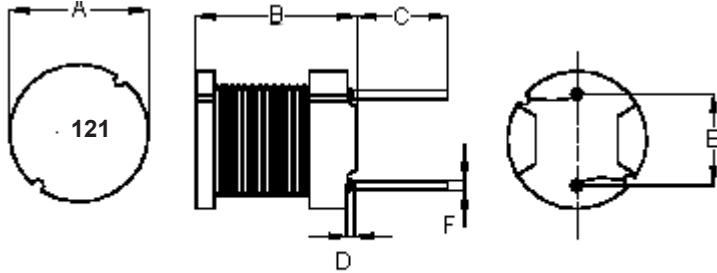
PART NO.

MCSCH895-121KU

REVISIONS

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

Configurations and Dimensions



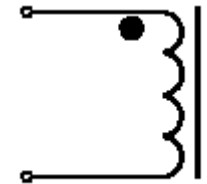
Top View

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	∅0.6 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.35mm
2. 61.5TS (Reference) C.W

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

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	120 µH ±10%
T <sub>a</sub> = 25°C	DCR	0.22 Ω (Max.)
1 KHz 0.25 V I <sub>rms</sub> = 0.85 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	∅0.6 (Ref.)
1	7.78	9.28	5.12	1.78	5.2	0.57
2	7.8	9.3	5.08	2	5.1	0.58
3	7.72	9.32	4.98	1.5	5.11	0.56
4	7.73	9.38	5.02	1.8	5.08	0.6
5	7.76	9.35	5.09	1.81	5.07	0.59
Average	7.76	9.33	5.06	1.78	5.11	0.58

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DATE:

20/4/11

DATE:

20/4/11

DATE:

04/5/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE  
A

DWG NO.

M10002994

ELECTRONIC FILE  
MCSCH895-121KU

REV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



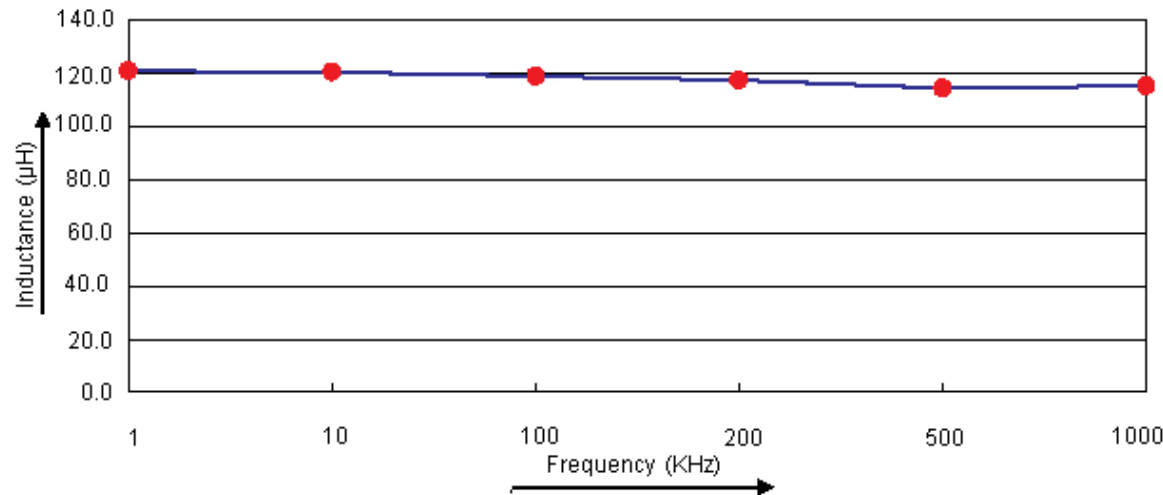
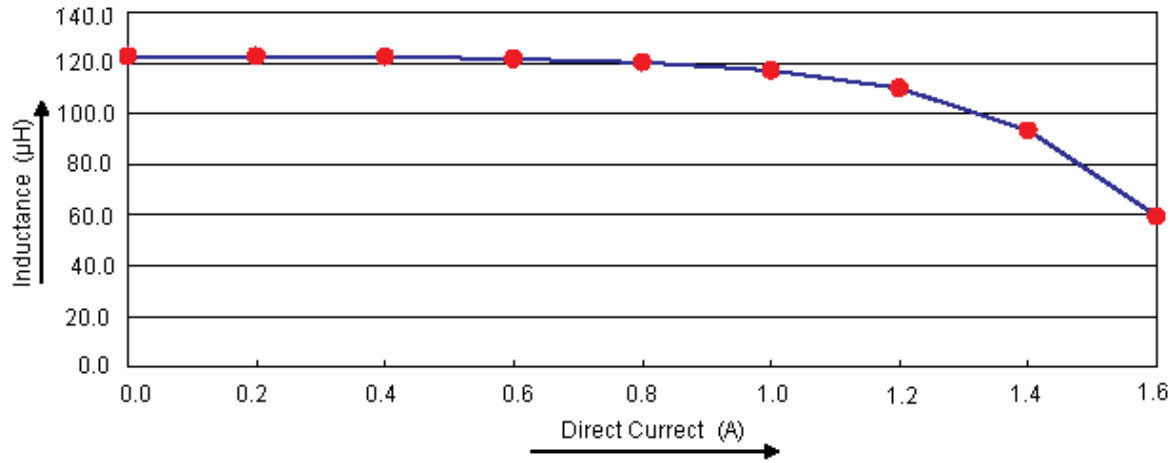
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Electric Characteristics



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 <sub>rms</sub> = 0.85 A
Specification	120 ±10%	0.22 (Max.)	Temperature rise 40°C (Max.)
1	120.99	0.194	OK
2	120.89		
3	121.21		
4	120.5	0.193	
5	119.94	0.2	
Average	120.71	0.2	OK

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APPROVED BY:	DATE:
	04/5/11

DRAWING TITLE:

**Inductor - Radial Leaded**

SIZE <b>A</b>	DWG NO. <b>M10002994</b>	ELECTRONIC FILE MCSCH895-121KU	REV <b>A</b>
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-121KU

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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 × 9.3 RFB B3.5 F5 P5
2	Wire	Ø0.35 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 120µH, 10%, Radial Leaded	MCSCH895-121KU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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REV  
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U.O.M.: mm

SHEET: 3 OF 3