



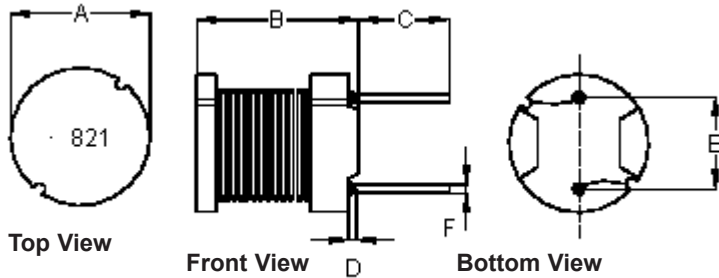
PART NO.

MCSCH895-821JU

REVISIONS

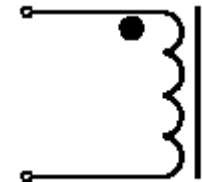
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	BHA	20/4/11		04/5/11

Configurations and Dimensions



A	7.8 ±0.5 mm	-
B	9.5 ±0.5 mm	-
C	5 ±0.5 mm	-
D	3 mm	(Max.)
E	5 ±0.5 mm	-
F	∅0.7 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.22mm
2. 165.5TS (Reference) C.W

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

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	820 μH ±5%
T _a = 25°C	DCR	1.56 Ω (Max.)
1 KHz 0.25 V I _{rms} = 0.36 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 ±0.5	3 (Max.)	5 ±0.5	∅0.7 (Ref.)
1	7.87	9.48	5.61	2.45	5.01	0.68
2	7.72	9.53	5.5	2.50	5.06	0.67
3	7.85	9.4	5.7	2.47	4.74	0.66
4	7.7	9.47	5.47	2.52	4.84	0.67
5	7.85	9.55	5.67	2.49	5.01	
Average	7.80	9.49	5.59	2.49	4.93	0.67

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DRAWN BY:

ARU

CHECKED BY:

BHA

APPROVED BY:

DATE:

20/4/11

DATE:

20/4/11

DATE:

04/5/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE
A

DWG NO.

M10003010

ELECTRONIC FILE
MCSCH895-821JU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



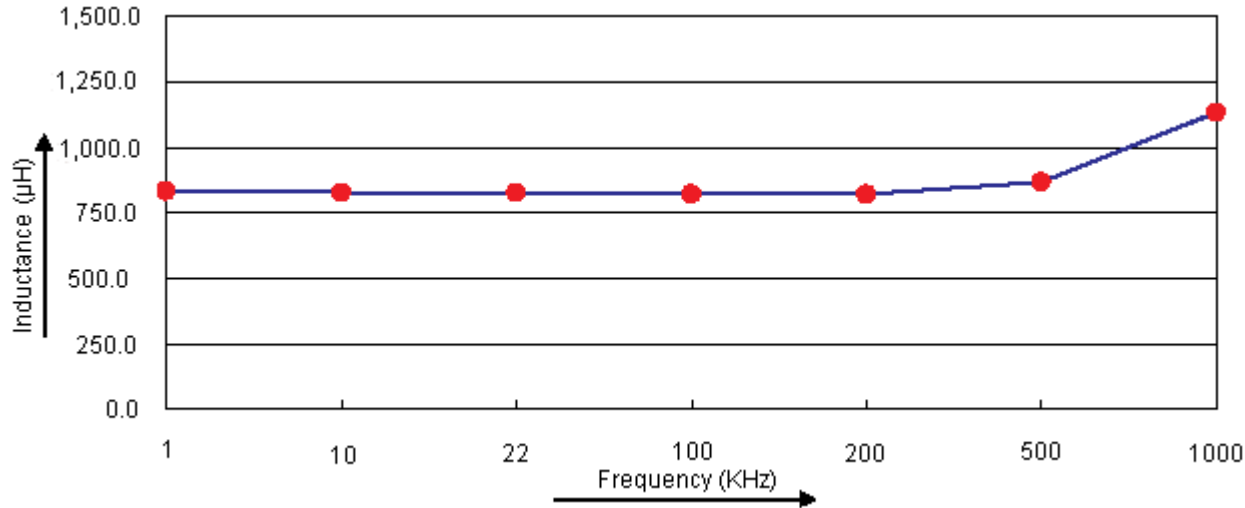
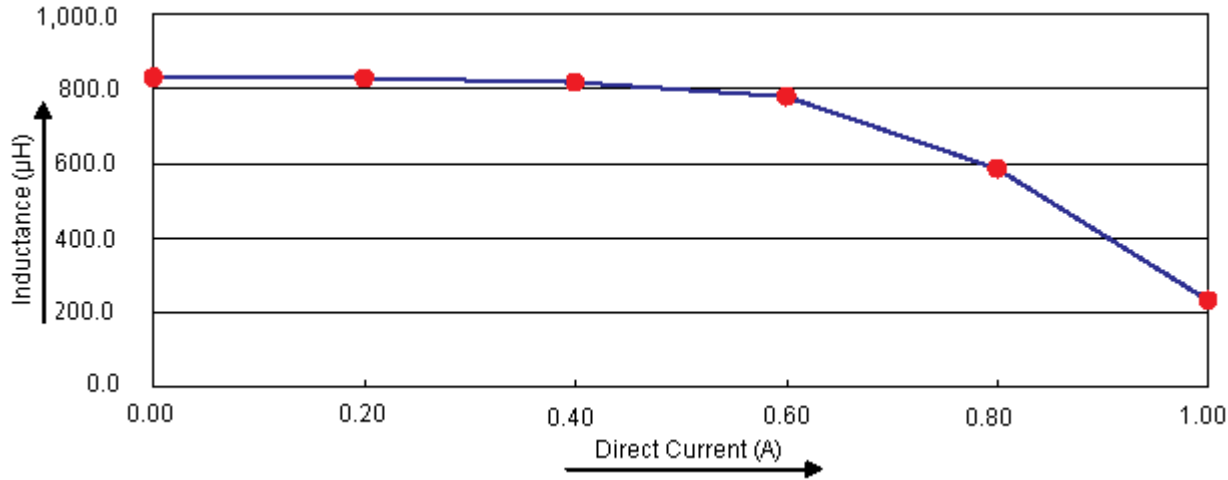
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Electric Characteristics



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} = 0.36 A
Specification	820 ±5%	1.6 (Max.)	Temperature rise 40°C (Max.)
1	828.89	1.32	OK
2	824.07	1.35	
3	828.02	1.32	
4	824.55	1.32	
5	823.65	1.35	
Average	825.84	1.33	OK

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BHA	20/4/11
APPROVED BY:	DATE:
	04/5/11

DRAWING TITLE:

Inductor - Radial Leaded

SIZE A	DWG NO. M10003010	ELECTRONIC FILE MCSCH895-821JU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCSCH895-821JU

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	DL5 DRWW7.8 × 9.5 RSN B3.6 F5.4 P5
2	Wire	Ø0.22 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 820µH, 5%, Radial Leaded	MCSCH895-821JU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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SHEET: 3 OF 3