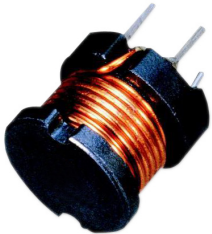


# Inductor

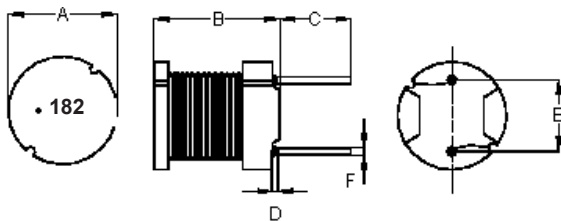
## Radial Leaded

multicomp **PRO**

RoHS  
Compliant



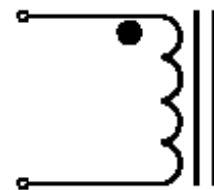
### Configurations and Dimensions



Top View      Front View      Bottom View

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

### Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.18mm
2. 240.5TS (Reference) C.W

### 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	Ø0.7 (Ref.)
1	7.85	9.52	5.1	1.52	5	0.68
2	7.85	9.41	5.01	1.51	4.96	0.67
3	7.87	9.49	5.07	1.54	5.06	0.67
4	7.86	9.42	5.08	1.5	4.97	0.67
5	7.84	9.4	5.04	1.51	4.97	0.68
<b>Average</b>	<b>7.85</b>	<b>9.45</b>	<b>5.06</b>	<b>1.52</b>	<b>4.99</b>	<b>0.67</b>

### Electrical Characteristics

Test Condition		
1kHz 0.25V	L	1.8mH ±10%
T <sub>A</sub> = 25°C	DCR	3.3Ω (Max.)
1kHz 0.25 V Irms = 0.18A	ΔT	Temperature rise 40°C (Max.)

Operating temperature : -55°C to +130°C

### Material List

No.	Item	Material Description
1	Core	DL5 DRWW 7.8 × 9.5 RSN B = 3.6 F = 5.4 P = 5
2	Wire	Ø0.18 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

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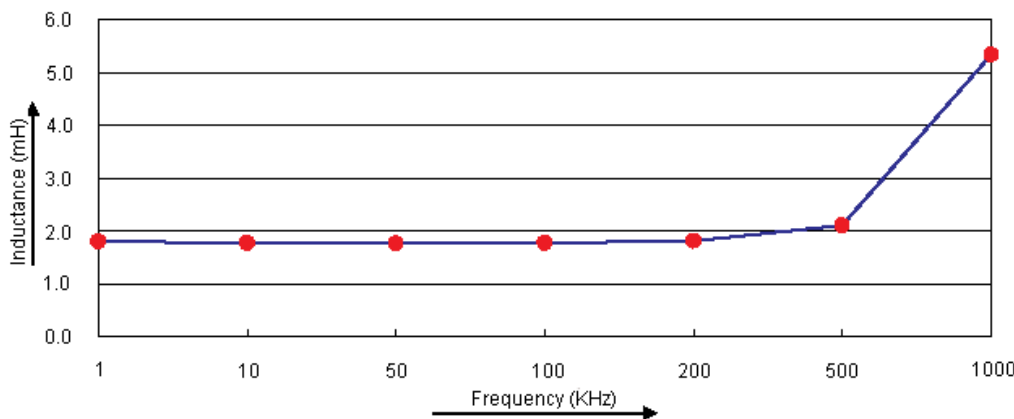
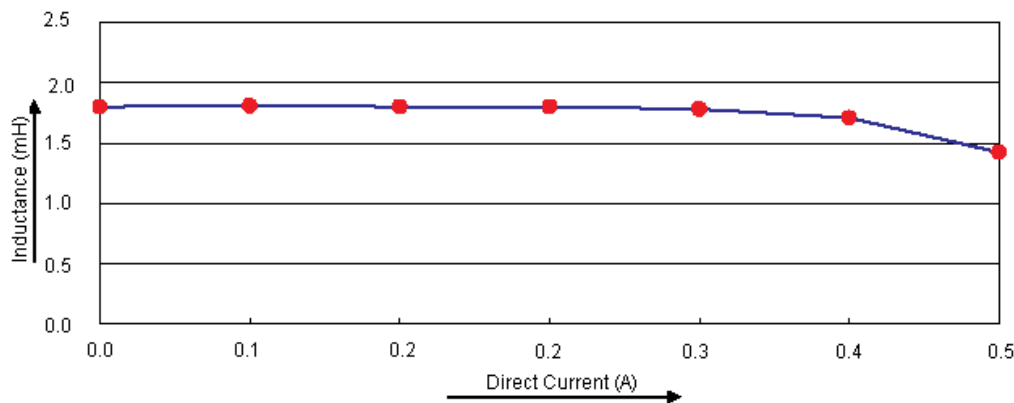
# Inductor

## Radial Leaded

### 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 / -0.5s

### Electric Characteristics



# Inductor

## Radial Leaded

### Test Data for Electrical

Test Item	L μH	DCR Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I <sub>rms</sub> = 0.18A
Specification	1.8 ±10%	3.3 (Max.)	Temperature rise 40°C (Max.)
1	1.8	2.89	OK
2	1.8	2.88	
3	1.8	2.88	
4	1.81	2.89	
5	1.8	2.9	
<b>Average</b>	<b>1.8</b>	<b>2.89</b>	<b>OK</b>

### Part Number Table

Description	Part Number
Inductor, 1.8mH, 10%, Radial Leaded	MCSCH895-182KU

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