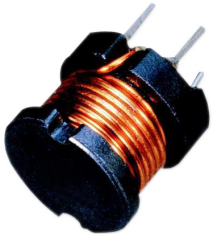


Inductor

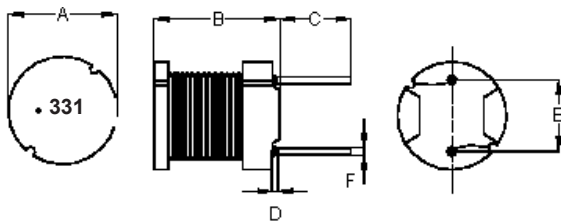
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**RoHS
Compliant**



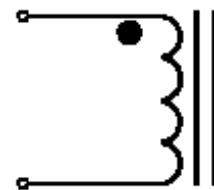
Configurations and Dimensions



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) Ø0.28mm
2. 104.5TS (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 ±1	3 (Max.)	5 ±0.5	Ø0.7 (Ref.)
1	7.86	9.49	5.08	1.26	4.8	0.67
2	7.77	9.5	5.12	1.27	4.92	0.68
3	7.85	9.51	4.98	1.28	5.01	0.68
4	7.84	9.53	5.12	2.21	4.98	0.69
5	7.78	9.48	5.07	2.26	4.8	0.68
Average	7.82	9.5	5.07	1.66	4.9	0.68

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	330µH ±10%
T _A = 25°C	DCR	0.7Ω (Max.)
1kHz 0.25V I _{rms} = 0.51A	ΔT	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	DL5 DRWW7.8 × 9.5 RSN B3.6 P5 F5.4 (2 (PIN))
2	Wire	Ø0.28mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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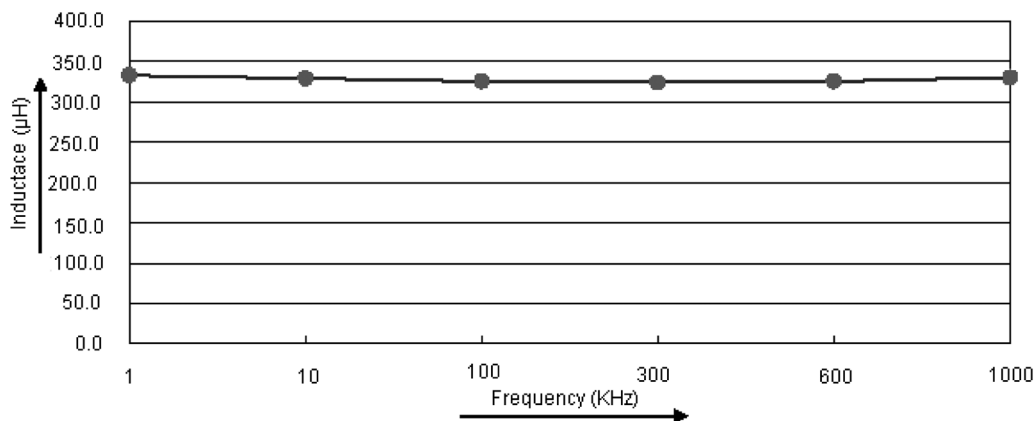
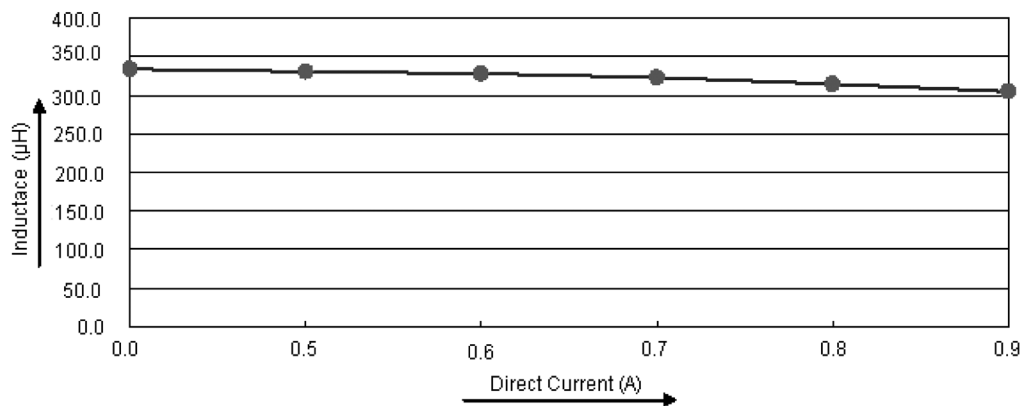
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Reliability Test

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 / -0.5s

Electric Characteristics



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Test Data for Electrical

Test Item	L μH	DCR Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I _{rms} = 0.51A
Specification	330 ±10%	0.7 (Max.)	Temperature rise 40°C (Max.)
1	332.1	0.5	OK
2	332.65	0.51	
3	334.45	0.52	
4	333.85	0.5	
5	330.6	0.5	
Average	332.73	0.51	OK

Part Number Table

Description	Part Number
Inductor, 330μH, 10%, Radial Leaded	MCSCH895-331KU

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