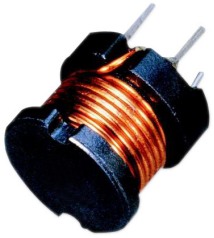
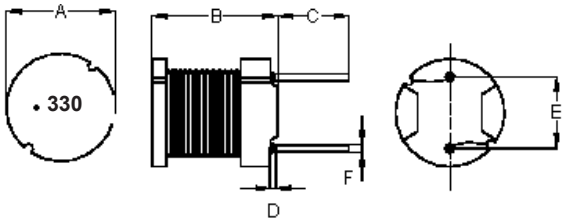
Inductor
Radial Leaded

RoHS Compliant



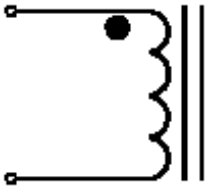
Configurations and Dimensions



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) Ø0.5mm
2. 32.5TS (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	Ø0.6 (Ref.)
1	7.83	9.34	5.5	1.22	5.24	0.65
2	7.89	9.33	5.36	1.24	5.35	0.64
3	7.87	9.41	5.72	1.25	5.23	0.65
4		9.31	5.65	1.5	4.86	0.63
5	7.86	9.3	5.36	1.64	5.24	0.62
Average	**7.86**	**9.34**	**5.52**	**1.37**	**5.18**	**0.64**

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	33μH ±20%
T_A = 25°C	DCR	60Ω (Max.)
1kHz 0.25V Irms = 2A	ΔT	Temperature rise 40°C (Max.)

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

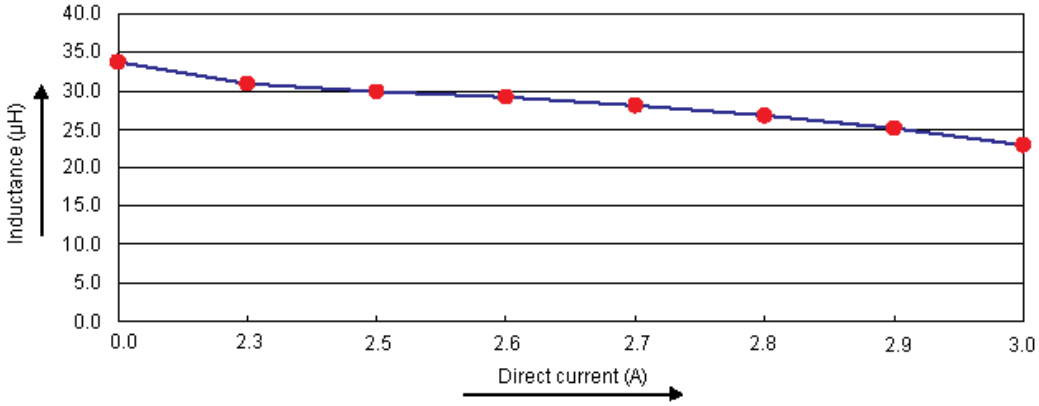
Material List

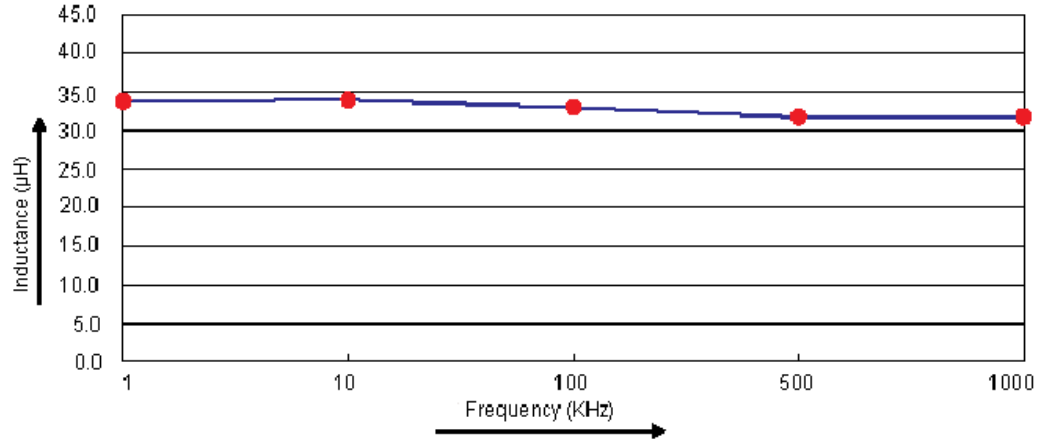
No.	Item	Material Description
1	Core	F4D DR2W7.8 × 9.3 (SW) RCH B3.5 F5 P5
2	Wire	Ø0.5mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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





Test Data for Electrical

Test Item	L µH	DCR Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V Irms = 2A
Specification	33 ±20%	60 (Max.)	Temperature rise 40°C (Max.)
1	33.44	52.06	OK
2	34.02	52.28	
3	33.82	51.95	
4	33.74	52.02	
5	33.58	51.87	
Average	**33.72**	**52.04**	**OK**

Part Number Table

Description	Part Number
Inductor, 33µH, 10%, Radial Leaded	MCSCH895-330KU