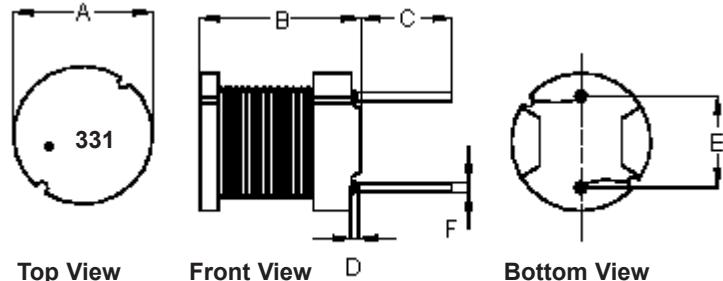


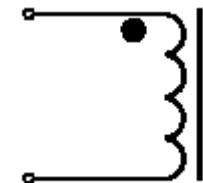
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ARU	20/4/11	MEG	20/4/11		04/5/11

## Configurations and Dimensions



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	Ø0.7 mm	(Ref.)

## Schematic Diagram

RoHS  
Compliant

## Note:

1. Wire UEFN/U (155°C) Ø0.28mm
2. 104.5TS (Reference) C.W

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

## Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	330 µH ±10%
T <sub>a</sub> = 25°C	DCR	0.7 Ω (Max.)
1 KHz 0.25 V I <sub>rms</sub> = 0.51 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	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	
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

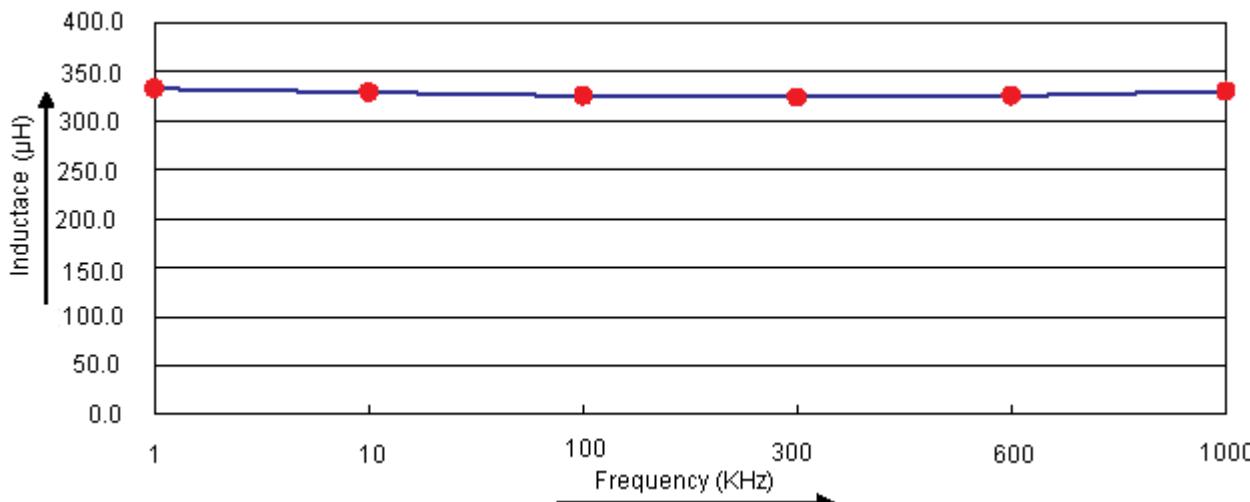
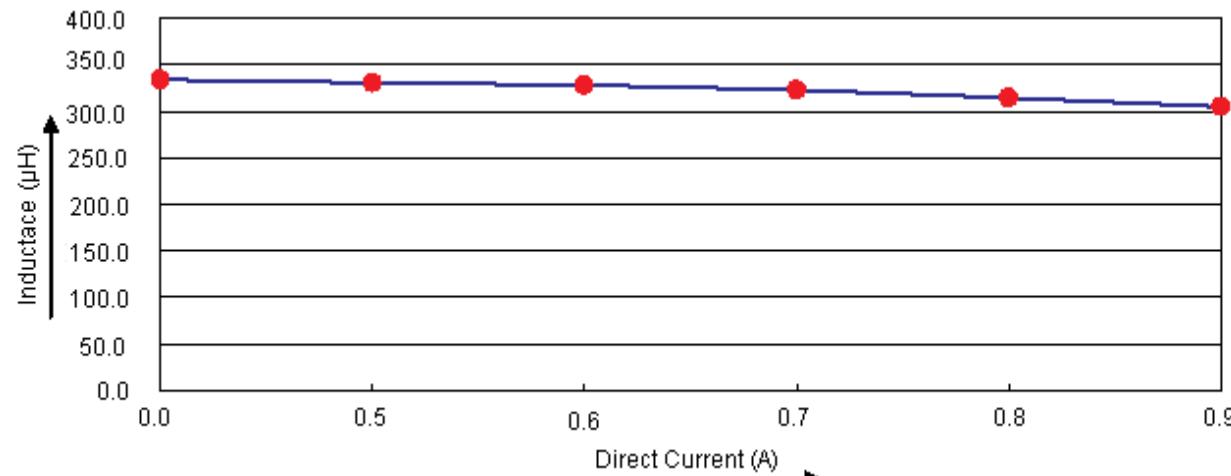
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DRAWN BY:		DATE:	DRAWING TITLE:			
ARU		20/04/11	Inductor - Radial Leaded			
CHECKED BY:		DATE:	SIZE A	DWG NO. M10003000	ELECTRONIC FILE MCSCH895-331KU	
MEG		20/04/11				
APPROVED BY:		DATE:	SCALE: NTS		REV A	
		04/05/11	U.O.M.: mm		SHEET: 1 OF 3	

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

## 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> = 0.51 A
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		
Average	332.73	0.51	OK

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ARU  
DATE:  
20/04/11  
CHECKED BY:  
MEG  
DATE:  
20/04/11  
APPROVED BY:  
DATE:  
04/05/11

DRAWING TITLE:  
**Inductor - Radial Leaded**  
SIZE **A** DWG NO. **M10003000** ELECTRONIC FILE **MCSCH895-331KU** REV **A**  
SCALE: NTS U.O.M.: mm SHEET: 2 OF 3



PART NO.  
MCSCH895-331KU

### REVISIONS

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

### 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 P5 F5.4 (2 (PIN)
2	Wire	Ø0.28 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

### Part Number Table

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

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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	ARU	20/04/11						
	CHECKED BY:	DATE:						
	MEG	20/04/11						
	APPROVED BY:	DATE:						
		04/05/11	SCALE: NTS		U.O.M.: mm			
			SHEET: 3 OF 3					