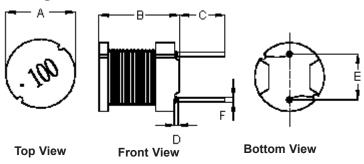


PART NO.

MCSCH664-100KU

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	20/4/11	SHA	20/4/11		04/5/11

Configurations and Dimensions

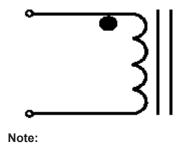


Note: White dot	of marking	indicates	the start	terminal	of winding

Α	6 ±0.5 mm	-		
В	6.5 mm	(Max.)		
С	4 ±1 mm	-		
D	2 mm	(Max.)		
E	4 ±0.5 mm	-		
F	Ø0.5 mm	(Ref.)		

Schematic Diagram





- 1. Wire UEFN/U (155°C) Ø0.37mm
- 2. 18.5TS (Reference) C.W

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	10 μH ±10%
T _a = 25°C	DCR	50 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 2.1 A	ΔΤ	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	6 ±0.5	6.5 (Max.)	4 ±1	2 (Max.)	4 ±0.5	Ø0.5 (Ref.)	
1	6.03	6.37	4.09	0.63	4.14	0.53	
2	6.02	6.35	4.12	0.56	3.97		
3	0.02	6.38	4.25	0.58	4.08	0.54	
4	6.04	6.35	4.15	0.62	4.14		
5	6.03	6.37	4.11	0.6	4.02	0.53	
Average	6.03	6.36	4.14	0.6	4.07	0.54	

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DRAWN BY:	DATE:
SID	20/04/11
CHECKED BY:	DATE:
SHA	20/04/11
APPROVED BY:	DATE:
	04/05/11

DRAWING TITLE: Inductor - Radial Leaded

 SIZE
 DWG NO.
 M10002633
 ELECTRONIC FILE
 REV

 MCSCH664-100KU
 A

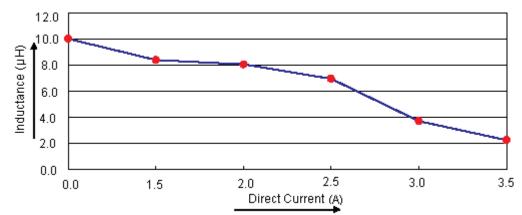


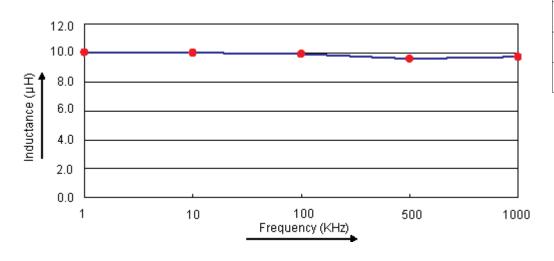
PART NO.

MCSCH664-100KU

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	20/4/11	SHA	20/4/11		04/5/11

Electric Characteristics





Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ		
Condition	1 KHz 0.25 V	at 25°C	1 KHz 0.25 V I _{rms} = 2.10 A		
Specification	10 ±10%	50 (Max.)	Temperature rise 40°C (Max.)		
1	9.89	37.21			
2	9.82	37.04			
3	9.93	37.52	OK		
4	9.97	39.2			
5	9.93	37.21			
Average	9.91	37.64	ОК		

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SHA	20/04/11
APPROVED BY:	DATE:
	04/05/11

	DRAWING TITLE:									
	Inductor - Radial Leaded									
	SIZE A	DWG NO.	M10002633	ELECTRONIC FILE RET MCSCH664-100KU A						
_	SCAL	E: NTS	U.O.M.: mm		SHEET:	2 ()F 3			



PART NO.

MCSCH664-100KU

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	20/4/11	SHA	20/4/11		04/5/11

Reliability Test

Test Item	Specifi	cations	Test Method and Remarks		
Operating temperature range	-55°C to +130°C	Including temperature rise due to self-generated heat.		rise due to self-generated heat.	
Storage condition	Ambient temperature Humidity	: 0°C to 40°C : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taken control temperature and humidity in the storage area.		
Moisture sensitivity	Appearance	: No abnormality No damage	According to J-STD-0 Test condition Test duration	20B level 3 : 60°C 60% RH : 40 hrs	
indictare denotativity	DCR change Inductance change	: Within ±5% : Within ±5%	Recovery	: 1 to 2 hours of recovery under the standard condition after the removal from the test chamber.	
Solderability		chibit a continuous solder cts for a minimum of 95% any individual lead.	According to J-STD-0 Steam aging category Steam aging duration Solder Solder temperature Dip time	: 97°C 98% RH	

Material List

No.	Item	Material Description
1	Core	M4S DRWW6 × 6.3 D31M 2H C2.4 F2.7 P4
2	Wire	Ø0.37 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number			
Inductor, 10µH, 10%, Radial Leaded	MCSCH664-100KU			

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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APPROVED BY:	DATE:			
	04/05/11			

:	DRAW	NG TITLE:							
	Inductor - Radial Leaded								
	SIZE DWG NO.		N 4 4 0 0 0 0 0 0 0 0	ELECTRONIC FILE				REV	
	Α		M10002633		MCSCH664-100KU				Α
	SCALE: NTS			U.O.M.: mm		SHEET:	3	OF	: 3