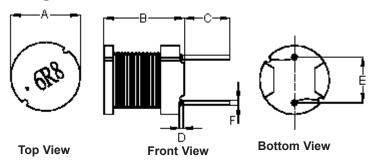


PART NO.

MCSCH664-6R8KU

	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

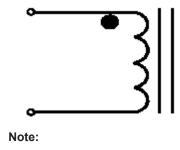


Note: White dot of marking indicates the start terminal of winding

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

Schematic Diagram





- 1. Wire UEFN/U (155°C) Ø0.4mm
- 2. 15.5TS (Reference) C.W

Electrical Characteristics

Test Condition		
1 MHz 0.25 V	L	6.8 µH ±10%
T _a = 25°C	DCR	35 mΩ (Max.)
1 MHz 0.25 V I _{rms} = 2.8 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	4.25	0.68	4.14	0.54	
2	6.05	6.38	4.01	0.78	4.09	0.54	
3	6.02	6.35	4.12	0.69	4.01	0.53	
4	6.07	6.41	4.07	0.72	4.07	0.55	
5	6.05	6.38	3.94	0.73	3.94	0.54	
Average	6.04	6.38	4.08	0.72	4.05	0.54	

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

SIZE DWG NO. M10000000 ELECTRONIC FILE

 SIZE A
 DWG NO.
 M10002632
 ELECTRONIC FILE MCSCH664-6R8KU
 REV A

 SCALE: NTS
 U.O.M.: mm
 SHEET: 1 OF 3

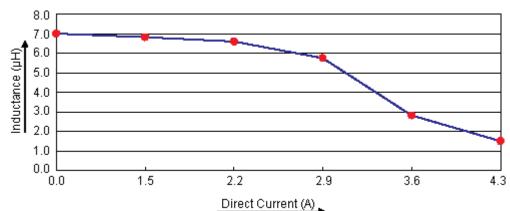


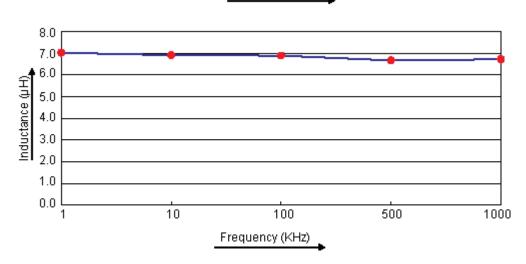
PART NO.

MCSCH664-6R8KU

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

icst bata 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} = 2.8 A		
Specification	6.8 ±10%	35 (Max.)	Temperature rise 40°C (Max.)		
1	6.85	26.64			
2	6.8	27.05			
3	6.89	26.86	ОК		
4	6.85	26.8			
5	6.81	26.73			
Average	6.84	26.82	ок		

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

:	DRAWING TITLE:								
	Inductor - Radial Leaded								
:	SIZE	DWG NO. M10002632			ELECTRONIC FILE RE MCSCH664-6R8KU A				
:	SCAL	E: NTS	U.O.M.: mm		SHEET:	2 0	F 3		



PART NO.

MCSCH664-6R8KU

	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	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 Humidity	: 0°C to 40°C : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taker control temperature and humidity in the storage area.			
Moisture sensitivity	Appearance DCR change	: No abnormality No damage : Within ±5%	According to J-STD- Test condition Test duration	: 60°C 60% RH : 40 hrs		
	Inductance change	: Within ±5%	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- Steam aging categor Steam aging duration Solder Solder temperature Dip time	y : 97°C 98% RH		

Material List

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

Part Number Table

Description	Part Number			
Inductor, 6.8µH, 10%, Radial Leaded	MCSCH664-6R8KU			

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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

	DRAWI	NG TITLE:							
	Inductor - Radial Leaded								
:	SIZE DWG NO.			M10002632	ELECTRONIC FILE MCSCH664-6R8KU		REV A		
:_	SCALE: NTS			U.O.M.: mm	•	SHEET:	3	OF	- 3