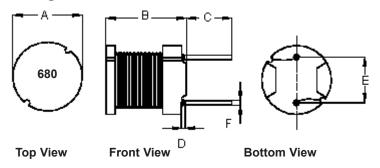


PART NO.

MCSCH664-680KU

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

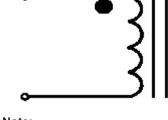
Configurations and Dimensions



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





- Note:
- 1. Wire UEFN/U (155°C) Ø0.25mm
- 2. 50.5TS (Reference) C.W

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	68 μH ±10%
T _a = 25°C	DCR	280 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 1.4 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	5.96	6.36	4.22	0.68	3.86	0.5
2		6.35	4.03	0.62	3.9	0.5
3	5.98	6.37	4.19	0.69	4.02	0.52
4	5.96	6.35	4.12	0.63	3.91	0.5
5	5.97	6.33	4.21	0.66	3.92	0.51
Average	5.97	6.35	4.15	0.66	3.92	0.51

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

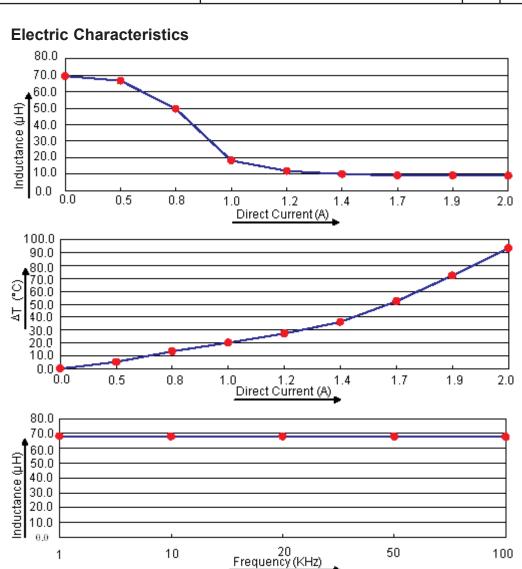
DRAW	NG TITLE:		•		
		Inductor - Radi	ial Le	eaded	
SIZE A	DWG NO.	M10002634	l -	TRONIC FILE SCH664-680KU	REV A
SCAL	F: NTS	II O M·mm		SHEET: 1	OF 3



PART NO.

MCSCH664-680KU

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



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} = 1.4 A
Specification	68 ±10%	280 (Max.)	Temperature rise 40°C (Max.)
1	68.7	222	
2	68.45	223.1	
3	68.6	223.6	OK
4	68.75	221	
5	68.05	222.6	
Average	68.51	222.46	ОК

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

DRAW	ING TITLE:		
		Inductor - Rad	ial Leaded
SIZE	DWG NO.	M10002624	ELECTRONIC FILE

| SIZE | DWG NO. | M10002634 | ELECTRONIC FILE | REV | MCSCH664-680KU | A | SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 3



PART NO.

MCSCH664-680KU

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	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 taken to control temperature and humidity in the storage area.			
Moisture sensitivity	Appearance DCR change Inductance change	: No abnormality No damage : Within ±5% : Within ±5%	According to J-STD- Test condition Test duration Recovery	 : 60°C 60% RH : 40 hrs : 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	F4D DR2W6.2 × 6.3 (SW) RCH		
2	Wire	Ø0.25 mm UEFN/U (155°C)		
3	Solder (Lead-free)	Sn99.3% / Cu0.7%		

Part Number Table

Description	Part Number		
Inductor, 68µH, 10%, Radial Leaded	MCSCH664-680KU		

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 IIILE:					
		Inductor - Radial Leaded					
:	SIZE	DWG NO.		ELEC	TRONIC FII	LE	REV
	Α		M10002634	МС	SCH664-6	80KU	Α
<u>: </u>	SCAL	F· NTS	II O M·mm		SHEET	3 01	= 3