

PART NO.

MCSD105-681KU

В

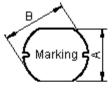
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		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Shashi	09/2/11	Jagan	09/2/11	Farnell	23/2/11

Configurations and Dimensions

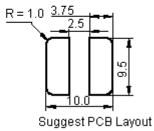




Top View Side View



Bottom View



Dimensions : Millimetres

Marking: 681 YY : Year YYWW WW : Week

Electrical Characteristics

(at 25°C)

9 ±0.4 mm

10 ±0.4 mm

5.4 ±0.5 mm

3.5 mm

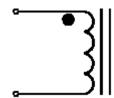
10.2 ±0.5 mm

(Reference)

Test Condition		
100KHz 0.25V	L	680μH ±10%
at 25°C	DCR	2.25Ω (Maximum)
100KHz 0.25V 1rms = 0.28A	ΔΤ	Temperature rise 40°C (Maximum)

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

Schematic Diagram





Note:

- 1. Wire Ø0.2mm x 1P 2UEWF 155°C
- 2. 113.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	
Specification	9 ±0.4	10 ±0.4 5.4 ±0.5		3.5 (Reference)	10.2 ±0.5	
1	9.06	10.04	5.52	3.27	9.99	
2	9.08	9.98	5.48	3.41	9.89	
3	9.04	10.1	5.47	3.49	9.99	
4	9.08	9.96	5.48	3.47	10.01	
5	9.05	9.93	5.46	3.33	10.02	
Average	9.06	10	5.48	3.39	9.98	

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Shashi	09/02/11
CHECKED BY:	DATE:
Jagan	09/02/11
APPROVED BY:	DATE:
Farnell	23/02/11

:	DRAW	NG TITLE:					
	Inductor						
:	SIZE	DWG NO.	N410000700	ELEC	REV		
	Α		M10002783	9	SD105-681KU	Α	
:	SCAL	E: NTS	U.O.M.: mm		SHEET: 1 O	F 3	

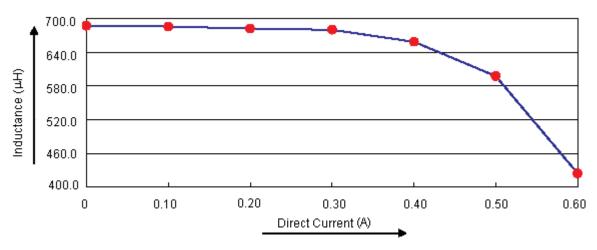


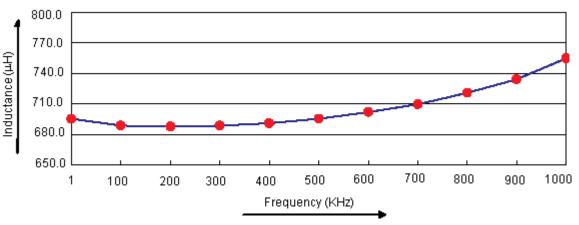
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Electric Characteristics





Test Data for Electrical

Test Item	L DCR μΗ Ω		ΔΤ			
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.28A			
Specification	680 ±10%	2.25 (Maximum)	Temperature rise 40°0 (Maximum)			
1	689.75	1.25	ОК			
2	685	1.28	ОК			
3	671.25	1.27	ОК			
4	681.25	1.27	ОК			
5	682.75	1.24	ОК			
Average	682	1.26	ОК			

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Jagan	09/02/11
APPROVED BY:	DATE:
Farnell	23/02/11

DRAWI	NG TITLE:						
		Inducto	or				
SIZE A	DWG NO.	M10002783	· ·	TRONIC FIL SD105-68			REV A
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MCSD105-681KU

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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 ±20%	According to J-STD-020B level 3 Test condition :60°C 60% RH Test duration :40 hours Recovery :1 to 2 hours of recovery under the standard			
	Inductance change : Within ±20%	condition after the removal from the test chamber.			
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 90% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hours Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0/-0.5 seconds.			

Material List

No.	Item	Material Description				
1	Core	R5A CDR10 x 5.4 (ST) B3.8 F2.6				
2	Wire	Ø0.2mm x 1P 2UEWF 155°C				
3	Solder (Lead Free)	99.3%Sn0.7%Cu				

Part Number Table

Description	Part Number			
Inductor, 680μH, 10%, 280mA	MCSD105-681KU			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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Inductor								
SIZE DWG NO.		M10002783		TRONIC FILE SD105-681KU			REV A	
SCALI	E: NTS	U.O.M.: mm		SHEET:	3	OF	3	