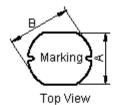


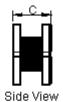
PART NO.

MCSD75-680KU

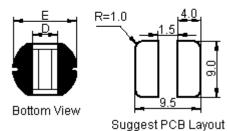
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Arun	10/2/11	Jagan	10/2/11	Farnell	24/2/11

Configurations and Dimensions





Α	7 ±0.3 mm	-
В	7.8 ±0.3 mm	-
С	5 ±0.5 mm	-
D	3 mm	(Reference)
Е	8 ±0.5 mm	-



Dimensions : Millimetres

Marking: 680

Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	68μH ±10%
at 25°C	DCR	280mΩ (Maximum)
100KHz 0.25V I _{rms} = 0.85A	ΔΤ	Temperature Rise 40°C (Maximum)

: -55°C to +130°C

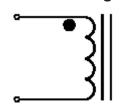
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Operating temperature

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CHECKED BY:	DATE:
Jagan	10/02/11
APPROVED BY:	DATE:
Farnell	24/02/11

Schematic Diagram





Note:

- (1) Wire Ø0.25mm x 1P 2UEWF 155°C
- (2) 40.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	7 ±0.3	7.8 ±0.3	5 ±0.5	3 (Reference)	8 ±0.5
1	7.03	7.83	5.03	2.37	7.8
2	7	7.81	5.04	2.51	7.69
3	,	7.8	5.03	2.5	7.87
4	7.02	7.82	5.06	2.57	7.8
5	7	7.8	5.04	2.34	7.76
Average	7.01	01 7.81 5.04		2.46	7.78

E:	DRAWING TITLE:								
1	Inductor								
E:	SIZE	DWG NO.		ELECTRONIC FILE				REV	
1	Α		M10003032	S	D75-680K	U		Α	
E:	- ^ ` '								
1	SCALE: NTS		U.O.M.: mm		SHEET:	1	OF	3	

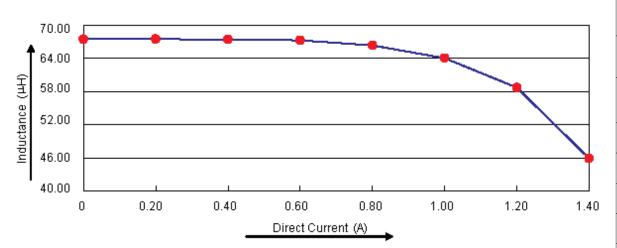


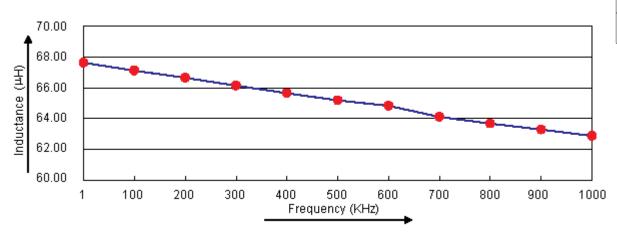
PART NO.

MCSD75-680KU

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Electric Characteristics





Test Data for Electrical

Tool Bata for Eloctrioar										
Test Item	L μH	DCR mΩ	ΔΤ							
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.85A							
Specification	68 ±10%	280 (Maximum)	Temperature Rise 40°C (Maximum)							
1	69.6	216	OK							
2	70	218	OK							
3	69.4	217	OK							
4	69.6	221	OK							
5	68.9	218	OK							
Average	69.5	218	ОК							

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Farnell	24/02/11

	DRAWI	DRAWING TITLE:								
	Inductor									
SIZE DWG NO.			M10003032		TRONIC FII			REV A		
	SCALE: NTS		U.O.M.: mm		SHEET:	2	OF	3		



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MCSD75-680KU

		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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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% Inductance 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 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 CDR7.8 x 5 (ST) B2.9 F2.5				
2	Wire	Ø0.25mm x 1P 2UEWF 155°C				
3	Solder (Lead Free)	Sn99.3% / Cu0.7%				

Part Number Table

Description	Part Number			
Inductor, 68μH, 850mA, 10%	MCSD75-680KU			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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CHECKED BY:	DATE:			
Jagan	10/02/11			
APPROVED BY:	DATE:			
Farnell	24/02/11			

DRAW	NG IIILE:						
	Inductor						
SIZE A	DWG NO.	M10003032	l -	TRONIC FII D75-680K			REV A
SCAL	E: NTS	U.O.M.: mm		SHEET:	3	OF	- 3