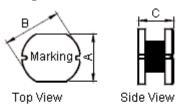


PART NO.

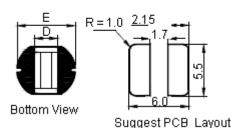
MCSD54-4R7MU

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

Configurations and Dimensions



А	5.2 ±0.3 mm	-		
В	5.8 ±0.3 mm	-		
С	4.5 ±0.35 mm	-		
D	2 mm	Reference		
Е	5.8 ±0.5 mm	-		



Dimensions : Millimetres

Marking: 4R7

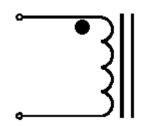
Electrical Characteristics

(at 25°C)

Test condition		
100KHz 0.25V	L	4.7μH ±20%
at 25°C	DCR	71mΩ (Maximum)
100KHz 0.25V I _{rms} = 3.6A	ΔΤ	Temperature Rise 40°C (Maximum)

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

Schematic Diagram





Note:

- (1) Wire Ø0.27mm x 1P 2UEWF 155°C
- (2) 13.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	5.2 ±0.3	5.8 ±0.3	4.5 ±0.35	2 (Reference)	5.8 ±0.5
1	5.27	5.92	4.57	1.98	5.95
2	5.23	5.87	4.56	2.01	5.77
3	5.3	5.85	4.56	2	5.77
4	5.31	5.88	4.59	2.01	5.78
5	5.29	5.86	4.54	1.99	5.85
Average	5.28	5.88	4.56	2	5.82

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Farnell	23/02/11

DRAWING TITLE:								
Inductor								
size A	DWG NO.	M10003074		TRONIC FILE		REV A		
SCALE: NTS		U.O.M.: mm		SHEET: 1	OI	= 3		

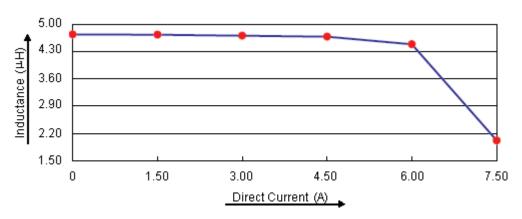


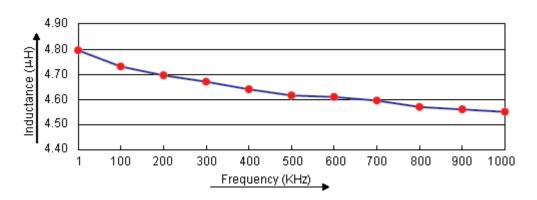
PART NO.

MCSD54-4R7MU

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Electric Characteristics





Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔΤ
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 3.6A
Specification	4.7 ±20%	71 (Maximum)	Temperature Rise 40°C (Maximum)
1	4.79	55.98	OK
2	4.85	55.38	OK
3	4.9	55.5	OK
4	4.81	55.78	OK
5	4.86	55.66	OK
Average	4.84	55.66	ок

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Farnell	23/02/11

::	DRAWI	NG TITLE:							
1	Inductor								
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MCSD54-4R7MU

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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			

Material List

No.	Item	Material Description		
1	Core	R5A CDR5.8 x 4.5(ST) B3.5 F2.3		
2	Wire	Ø0.27mm x 1P 2UEWF 155°C		
3 Solder (Lead Free)		Sn99.3% / Cu0.7%		

Part Number Table

Description	Part Number		
Inductor, 4.7μH, 2.8A, 20%	MCSD54-4R7MU		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	Farnell	23/02/11		

	DRAWI	ING TITLE:						
	Inductor							
	size A	DWG NO.	M10003074		ELECTRONIC FILE SD54-4R7MU			REV A
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