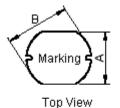


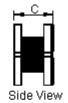
PART NO.

MCSD105-560KU

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

Configurations and Dimensions



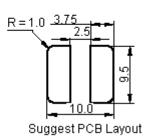












Dimensions : Millimetres

Marking : 560 YYWW YY : Year WW : Week

Note:

- 1. Wire Ø0.35mm x 1P 2UEWF 155°C
- 2. 33.5TS (Reference)

Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	56μH ±10%
at 25°C	DCR	190mΩ (Maximum)
100KHz 0.25V I _{rms} = 1.17A	ΔΤ	Temperature rise 40°C (Maximum)

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	9 ±0.4	10 ±0.4	10 ±0.4 5.4 ±0.5 (10.2 ±0.5
1	9.07	10.01	5.48	3.15	10.27
2	9.04	10.01	5.52	3.12	10.47
3	9.07	10.05	5.5	3.17	9.9
4	9.04	10.02	5.43	3.16	10.05
5	9.12	10.03	5.47	3.09	10
Average	9.07	10.02	5.48	3.14	10.14

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Farnell	23/02/11

:	DRAWI	NG TITLE:					
	Inductor						
:	SIZE A	SIZE DWG NO. M10002620			TRONIC FILE	REV A	
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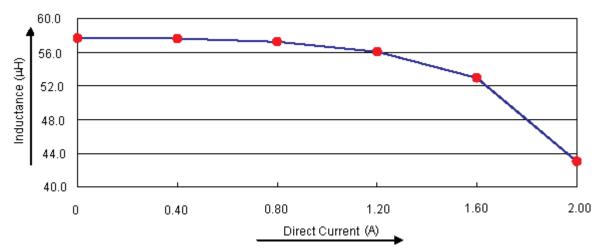


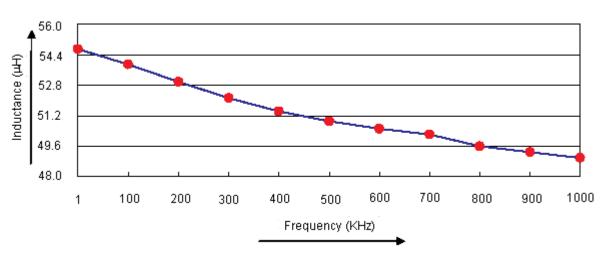
PART NO.

MCSD105-560KU

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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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} = 1.17A
Specification	Specification 56 ±10% (Maximum)		Temperature rise 40°C(Maximum)
1	57.62	111.58	OK
2	57.72	111.32	OK
3	56.4	111.29	OK
4	58.76	111.36	OK
5	58.6	113.07	OK
Average	57.82	111.72	OK

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MCSD105-560KU

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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	According to J-STD-020B level 3 Test condition :60°C 60% RH Test duration :40 hours			
Woodard Scholavity	DCR change : Within ±20% Inductance change : Within ±20%	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 CDR10 x 5.4 (ST) B3.8 F2.6
2	Wire	Ø0.35mm x 1P 2UEWF 155°C
3	Solder (Lead Free)	99.3%Sn0.7%Cu

Part Number Table

Description	Part Number			
Inductor, 56µH, 10%, 2pins	MCSD105-560KU			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	APPROVED BY:	DATE:		
	Farnell	23/02/11		

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		Inducto	or				
SIZE A	DWG NO.	M10002620		ELECTRONIC FILE SD105-560KU			REV A
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