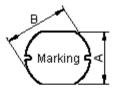


PART NO.

MCSD105-271KU

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

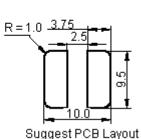
Configurations and Dimensions





Top View





Dimensions : Millimetres

Marking: 271 YY: Year YYWW: Week

Electrical Characteristics

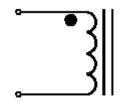
(at 25°C)

Test Condition		
100KHz 0.25V	L	270μH ±10%
at 25°C	DCR	0.97Ω (Maximum)
100KHz 0.25V I _{rms} = 0.57A	ΔΤ	Temperature rise 40°C (Maximum)

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

A 9 ±0.4 mm B 10 ±0.4 mm C 5.4 ±0.5 mm D 3.5 mm (Reference) E 10.2 ±0.5 mm -

Schematic Diagram





Note:

- 1. Wire Ø0.25mm x 1P 2UEWF 155°C
- 2. 70.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	9 ±0.4	.4 10 ±0.4 5.4 ±0.5		3.5 (Reference)	10.2 ±0.5
1	9	9.86	5.57	3.52	9.83
2	9.05	9.89	5.62	3.64	9.81
3	9.05	9.95	5.59	3.63	9.89
4	9.03	9.76	5.56	3.17	9.83
5	9.01	9.96	5.6	3.25	9.89
Average	9.03	9.88	5.59	3.44	9.85

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:	DRAWI	NG TITLE:				
	Inductor					
:	SIZE	DWG NO.	M10002626 ELECTRONIC FILE SD105-271KU			REV A
:	SCAL	E: NTS	U.O.M.: mm		SHEET: 1 O	F 3

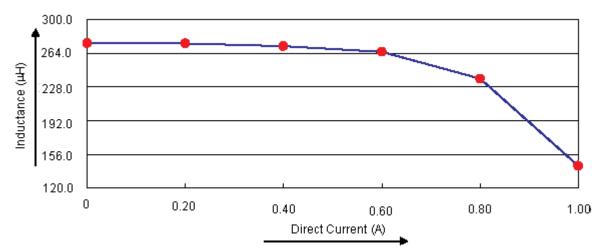


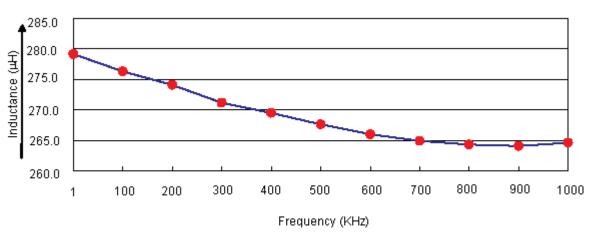
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MCSD105-271KU

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-	Α	RELEASED	Sidhu	09/2/11	Jagan	09/2/11	Farnell	23/2/11

Electric Characteristics





Test Data for Electrical

Test Item	L μH	DCR Ω	ΔΤ
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.57A
Specification	270 ±10%	0.97 (Maximum)	Temperature rise 40°C(Maximum)
1	275.54		OK
2	274.22		OK
3	271.72	0.49	OK
4	275.04		OK
5	272.74		OK
Average	273.852	0.49	ОК

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Farnell	23/02/11

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MCSD105-271KU

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	-	A RELEASED		Sidhu	09/2/11	Jagan	09/2/11	Farnell	23/2/11

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 : 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 CDR10 x 5.4 (ST) B3.8 F2.6		
2	Wire	Ø0.25mm x 1P 2UEWF 155°C		
3	Solder (Lead Free)	99.3%Sn0.7%Cu		

Part Number Table

Description	Part Number		
Inductor, 270μH, 570mA, 10%	MCSD105-271KU		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	Farnell	23/02/11		

DRAWI	NG TITLE:					
Inductor						
SIZE A	DWG NO.	M10002626		TRONIC FILE	_	REV A
SCAL	E: NTS	U.O.M.: mm		SHEET:	3 0	F 3