

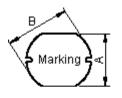
PART NO.

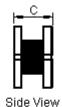
MCSD106-602KU

Ε

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

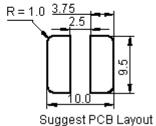
Configurations and Dimensions





Top View

Top view



Bottom View

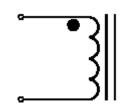
Dimensions : Millimetres

Marking: 472 YY: Year YYWW WW: Week

A 9 ±0.4 mm B 10 ±0.4 mm C 6.5 ±0.4 mm D 3.5 mm (Reference)

10 ±0.5 mm

Schematic Diagram





Note:

- 1. Wire Ø0.12mm x 1P 2UEWF 155°C
- 2. 370.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	9 ±0.4	10 ±0.4	6.5 ±0.4	3.5 (Reference)	10 ±0.5
1	9.02	10.02	6.64	2.83	9.89
2	8.92	9.96	6.6	2.82	9.85
3	8.98	9.95	6.62	2.78	9.89
4	9.01	9.97	6.61	2.76	9.84
5	8.95	9.96	6.60	2.79	9.87
Average	8.98	8 9.97 6.61		2.80	9.87

Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	6mH ±10%
at 25°C	DCR	14Ω (Maximum)
100KHz 0.25V 1rms = 0.27A	ΔΤ	Temperature rise 40°C (Maximum)

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

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	CHECKED BY:		
SPECIFIED, DIMENSIONS ARE FOR REFERENCE	Jagan		
PURPOSES ONLY.	APPROVED BY:		
	Farnell		

DATE:	DRAW	ING TITLE:					
/02/11	Inductor						
DATE: 0/02/11	SIZE DWG NO.			M10002790	ELEC	REV A	
DATE:					3	D106-602KU	
3/02/11	SCALE: NTS			U.O.M.: mm	SHEET:		F 3

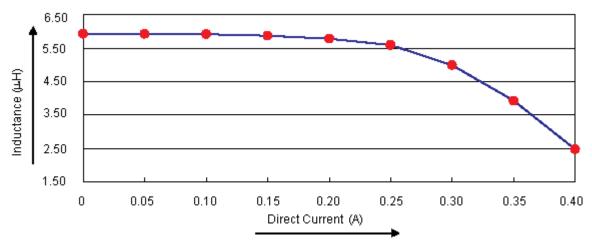


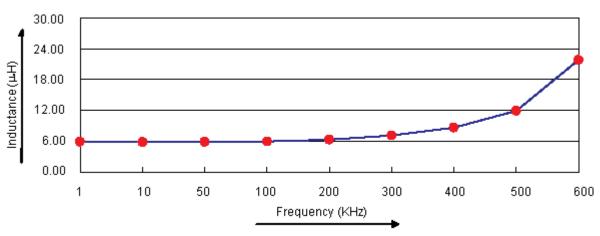
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Electric Characteristics





Test Data for Electrical

Test Item	L mH	DCR Ω	ΔΤ
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.27A
Specification	6 ±10%	14 (Maximum)	Temperature rise 40°C (Maximum)
1	6.04	11.67	ОК
2	5.96	12	ОК
3	6.03	11.98	ОК
4	6.04	11.96	ОК
5	6.14	11.89	OK
Average	6.042	11.9	ОК

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Farnell	23/02/11

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Inductor							
SIZE A	DWG NO.	M10002790	ELECTRONIC FILE SD106-602KU			REV A	
SCALE: NTS		U.O.M.: mm	SHEET: 2 O		- 3		



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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			
Mosture sensitivity	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.	No. Item Material Description			
1	Core	R5A CDR10 x 6.5 (ST) B4.7 F4		
2	Wire	Ø0.12mm x 1P 2UEWF 155°C		
3	Solder (Lead Free)	99.3%Sn0.7%Cu		

Part Number Table

Description	Part Number		
Inductor, 6mH, 10%, 2pins	MCSD106-602KU		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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			Inductor					
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	SCAL	E: NTS	U.O.M.: mm		SHEET:	3	OF	: 3