

PART NO.

MCSD106-302KU

Α

В

С

D

Ε

9 ±0.4 mm

10 ±0.4 mm

6.5 ±0.4 mm

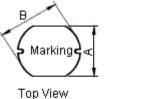
3.5 mm

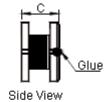
10 ±0.5 mm

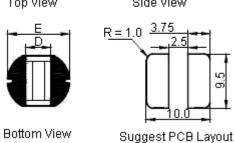
(Reference)

	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







Dimensions : Millimetres

Marking: 302 YY: Year YYWW: WW: Week

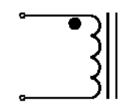
Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	3mH ±10%
at 25°C	DCR	7Ω (Maximum)
100KHz 0.25V 1rms = 0.4A	ΔΤ	Temperature rise 40°C (Maximum)

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

Schematic Diagram





Note:

- 1. Wire Ø0.15mm x 1P 2UEWF 155°C
- 2. 265.5TS (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	8.98	9.98	6.59	2.9	9.78
2	8.99	10	6.52	2.93	9.74
3	9	9.95	6.62	2.74	9.14
4	9.03	9.98	6.57	2.97	9.75
5	9	9.97	6.69	2.77	9.77
Average	9	9.98	6.6	2.86	9.76

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Shashi	09/02/11
CHECKED BY:	DATE:
Jagan	09/02/11
APPROVED BY:	DATE:
Farnell	23/02/11

	DRAWI	NG TITLE:					
1			Inducto	or			
:	SIZE	DWG NO.		ELEC	TRONIC FIL		REV
1	Α		M10002787	s	D106-302	2KU	Α
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PART NO.

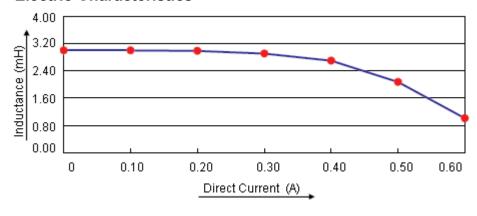
MCSD106-302KU

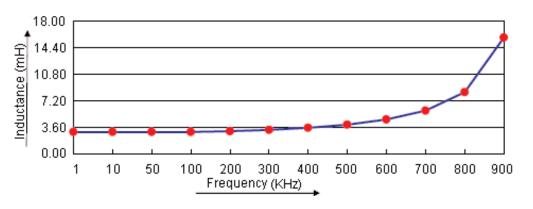
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Test Data for Electrical

Test Item	L μH	DCR Ω	ΔΤ
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.4A
Specification	3 ±10%	7 (Maximum)	Temperature rise 40°C (Maximum)
1	2.95	5.61	OK
2	2.91	5.57	OK
3	2.92	5.59	OK
4	2.91	5.58	OK
5	2.95	5.56	OK
Average	2.928	5.58	ОК

Electric Characteristics





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Farnell	23/02/11

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MCSD106-302KU

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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 CDR10 x 6.5 (ST) B4.7 F4	
2	Wire	Ø0.15mm x 1P 2UEWF 155°C	
3	Solder (Lead Free)	99.3%Sn0.7%Cu	
4	Glue	TH320	

Part Number Table

Description	Part Number		
Inductor, 3mH, 10%, 2pins	MCSD106-302KU		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	Inductor							
	SIZE A	DWG NO.	M10002787	1	TRONIC FIL D106-302			REV A
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