	PART NO.			REVISIONS						
🐼 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSD105-471KU	-	А	RELEASED	Shashi	09/2/11	Jagan	09/2/11	Farnell	23/2/11

-

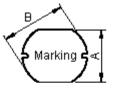
-

-

(Reference)

-

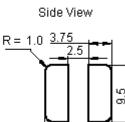
Configurations and Dimensions





Top View





Bottom View

Suggest PCB Layout Dimensions : Millimetres

10.0

Marking: 471 YYWW

: Year ww : Week

YΥ

Electrical Characteristics

(at 25°C)

9 ±0.4 mm

10 ±0.4 mm

5.4 ±0.5 mm

3.5 mm

10.2 ±0.5 mm

А

В

С

D

Е

Test Condition		
100KHz 0.25V	L	470μH ±10%
at 25°C	DCR	1.48Ω (Maximum)
100KHz 0.25V 1rms = 0.42A	ΔΤ	Temperature rise 40°C (Maximum)

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

Schematic Dia	igram
---------------	-------





Note:

1. Wire Ø0.2mm x 1P 2UEWF 155°C

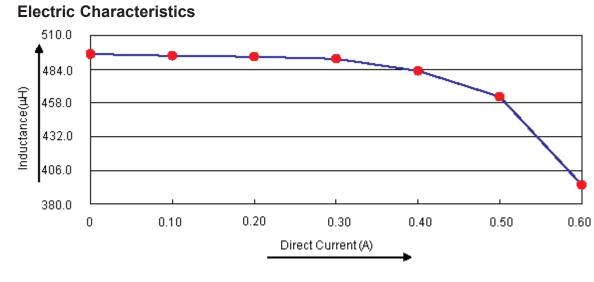
2. 93.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	9 ±0.4	10 ±0.4	5.4 ±0.5	3.5 (Reference)	10.2 ±0.5
1	9	9.99	5.43	2.42	9.83
2	9	9.97	5.49	2.54	9.81
3	8.96	10	5.4	2.6	9.89
4	8.98	10.02	5.5	2.76	9.83
5	9.98	9.98	5.43	2.52	9.89
Average	9.18	9.99	5.45	2.57	9.85

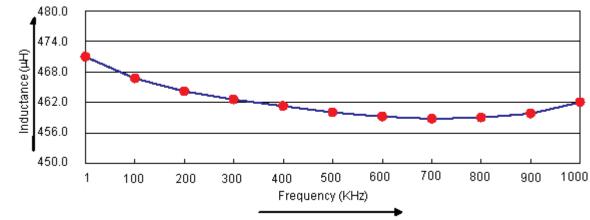
This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with-	UNLESS OTHERWISE	Shashi	09/02/11]	Inducto	or	
out notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE	Jagan	09/02/11	Δ	M10002782	SD105-471KU	Α
use of it (including liability resulting from negligence or where the Group was aware of	PURPOSES ONLY.	APPROVED BY:	DATE:		<u>I</u>		
the possibility of such loss or damage ansing) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2011.		Farnell	23/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 1 OI	F 3

	PART NO.			REVISIONS						
🐼 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSD105-471KU	-	А	RELEASED	Shashi	09/2/11	Jagan	09/2/11	Farnell	23/2/11



Test Data for Electrical

Test Item	L µH	DCR Ω	ΔΤ
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.42A
Specification	470 ±10%	1.48 (Maximum)	Temperature rise 40°C (Maximum)
1	499.5		ОК
2	496.35	0.97	ОК
3	484.9		ОК
4	486.85	0.96	ОК
5	496.05	0.98	ОК
Average	492.730	0.97	ОК



			1				
(the "Group") or are licensed to it. No licence is granted for the use of it other than for	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with	UNLESS OTHERWISE	Shashi	09/02/11		Inducto	or	
Completeness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE	Jagan	09/02/11	Δ	M10002782	SD105-471KU	Α
childred Elability for loco of damage foodlang formally follarios of the information of	PURPOSES ONLY.	APPROVED BY:	DATE:				L
or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell pic 2011.		Farnell	23/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 2 OF	F 3

	PABT NO.			REVISIONS						
🐢 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSD105-471KU	-	А	RELEASED	Shashi	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 damageDCR 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.	ltem	Material Description
1	Core	R5A CDR10 x 5.4 (ST) B3.8 F2.6
2	Wire	Ø0.2mm x 1P 2UEWF 155°C
3	Solder (Lead Free)	99.3%Sn0.7%Cu

Part Number Table

Description	Part Number
•	
Inductor, 470µH, 420mA, 10%	MCSD105-471KU
L	1

(the 'Group') of are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with- out notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or ornision from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Shashi	09/02/11		Inductor		
		CHECKED BY:	DATE:	SIZE DWG NO.	M10002782	ELECTRONIC FILE SD105-471KU	REV A
		Jagan	09/02/11	Δ			
		APPROVED BY:	DATE:		I	I	
		Farnell	23/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 3 OF	F 3