

PART NO.

MCSD75-330KU

7 ±0.3 mm

7.8 ±0.3 mm

5 ±0.5 mm

3 mm

8 ±0.5 mm

(Reference)

Α

В

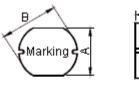
С

D

Ε

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Arun	10/2/11	Jagan	10/2/11	Farnell	24/2/11

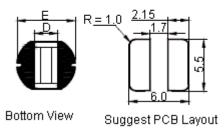
Configurations and Dimensions



Top View



Side View



Marking: 330

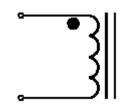
Electrical Characteristics (at 25°C)

Dimensions: Millimetres

Test Condition		
100KHz 0.25V	L	33μH ±10%
at 25°C	DCR	130mΩ (Maximum)
100KHz 0.25V I _{rms} = 1.20A	ΔΤ	Temperature Rise 40°C (Maximum)

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

Schematic Diagram





Note:

- (1) Wire Ø0.35mm x 1P 2UEWF 155°C
- (2) 30.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	7 ±0.3	7.8 ±0.3	5 ±0.5	3 (Reference)	8 ±0.5
1	7.05	7.82	4.99	2.26	7.79
2	7.06	7.02	5.05	2.25	7.75
3	7.08	7.84	5.06	2.28	7.81
4	7.04	7.81	5.01	2.23	7.79
5	7.09	7.85	5.07	2.27	1.19
Average	7.06	7.83	5.04	2.26	7.79

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

DRAWN BY:	DATE:	DRAWING TITLE:									
Arun	10/02/11]		Inductor							
CHECKED BY: DATE:		SIZE	DWG NO.	M10003025		ELEC	ELECTRONIC FILE				
Jagan 10/02/11		Δ				D75-330KU		Α			
APPROVED BY:	BY: DATE:		DATE:								
Farnell	24/02/11	SCAL	E: NTS		U.O.M.: mm		SHEET: 1 OI				



PART NO.

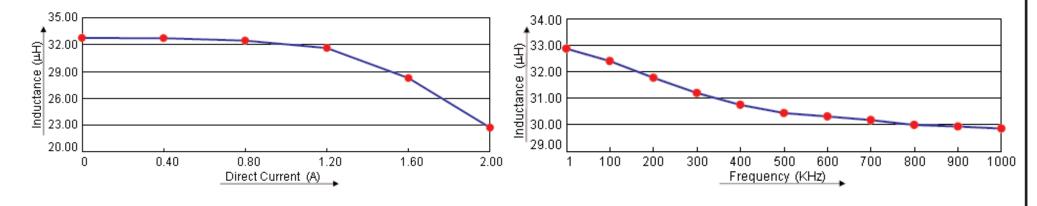
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Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔΤ
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 1.20A
Specification	33 ±10%	130 (Maximum)	Temperature Rise 40°C (Maximum)
1	32.13	89.5	OK
2	31.93	88.6	OK
3	31.95	91.8	OK
4	31.82	87.2	OK
5	31.78	87	OK
Average	31.92	88.82	ОК

Electric Characteristics



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Farnell	24/02/11

	DRAW	ING TITLE:						
Inductor				or				
SIZE DWG NO. M10003025			TRONIC FII			REV A		
SCALE: NTS		E: NTS	U.O.M.: mm		SHEET:	2	OF	3



MCSD75-330KU

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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%	According to J-STD-020B level 3 Test condition: 60°C 60% RH Test duration: 40 hours			
	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 CDR7.8 x 5 (ST) B2.9 F2.5			
2	Wire	Ø0.35mm x 1P 2UEWF 155°C			
3	Solder (Lead Free)	Sn99.3% / Cu0.7%			

Part Number Table

Description	Part Number			
Inductor, 33µH, 10%, SMD	MCSD75-330KU			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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APPROVED BY:	DATE:
Farnell	24/02/11

DRAW	NG TITLE:						
]		Inducto	or				
SIZE	DWG NO.	M10003025	· ·	TRONIC FIL D75-330K			REV A
SCAL	E: NTS	U.O.M.: mm		SHEET:	3	OF	3