



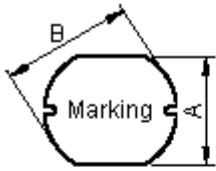
PART NO.

MCS75-183KU

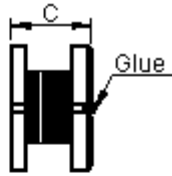
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Arun	09/2/11	Jagan	09/2/11	Farnell	23/2/11

Configurations and Dimensions

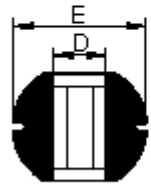


Top View

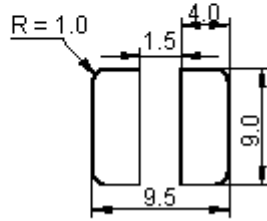


Side View

A	7 ±0.3 mm	-
B	7.8 ±0.3 mm	-
C	5 ±0.5 mm	-
D	3 mm	(Reference)
E	8 ±0.5 mm	-



Bottom View



Suggest PCB Layout

Dimensions : Millimetres

Marking : 183

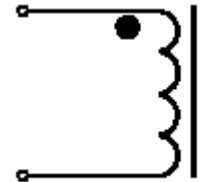
Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	18mH ±10%
at 25°C	DCR	72Ω (Maximum)
100KHz 0.25V I _{rms} = 0.05A	ΔT	Temperature Rise 40°C (Maximum)

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

Schematic Diagram



Note:

- (1) Wire Ø0.06mm x 1P 2UEWF 155°C
- (2) 680.5TS (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	7.1	7.85	5.01	2.22	7.8
2	6.99	7.76	5	2	7.81
3		7.84	5.18	2.44	7.8
4	7.03	7.69	4.94	2.21	7.78
5	7.06	7.79	5.07	2.47	7.71
Average	7.03	7.79	5.04	2.27	7.78

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DRAWN BY:

Arun

CHECKED BY:

Jagan

APPROVED BY:

Farnell

DATE:

09/02/11

DATE:

09/02/11

DATE:

23/02/11

DRAWING TITLE:

Inductor

SIZE

A

DWG NO.

M10003017

ELECTRONIC FILE

SD75-183KU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



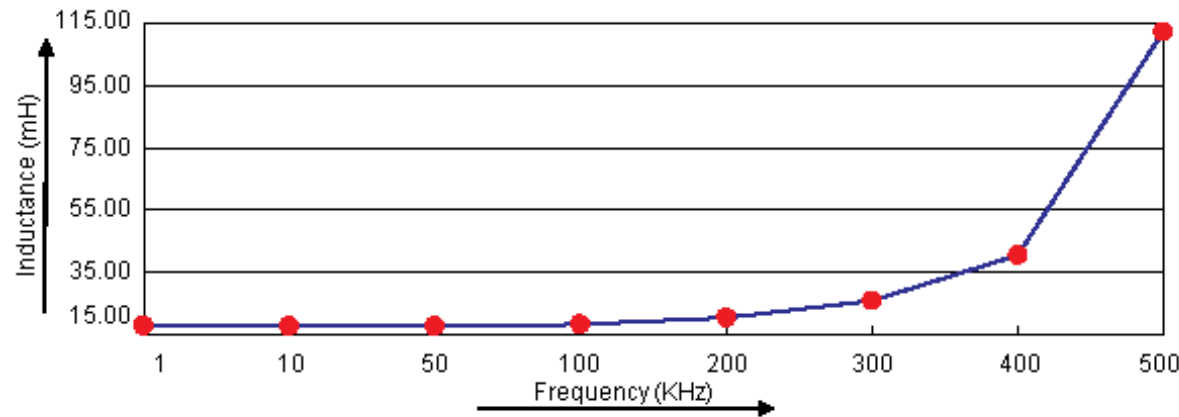
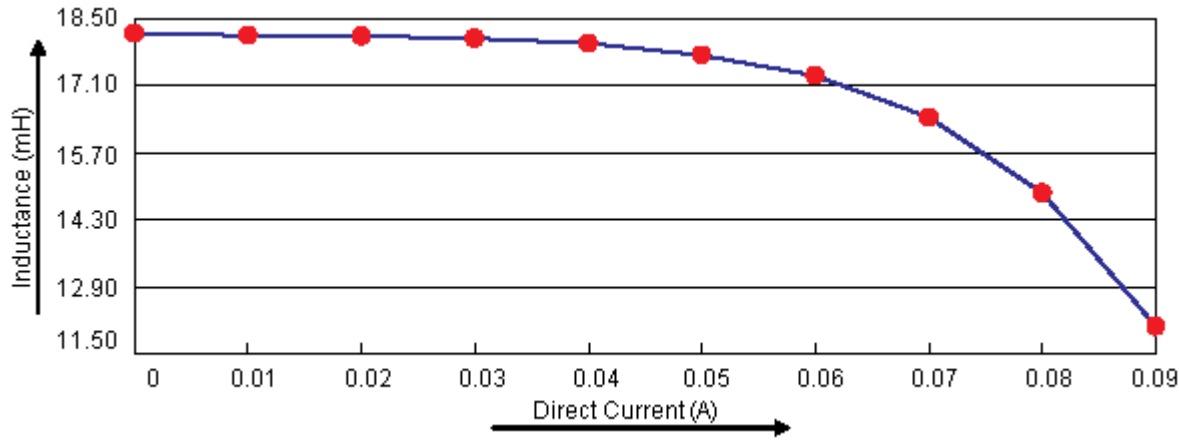
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Electric Characteristics



Test Data for Electrical

Test Item	L mH	DCR Ω	ΔT
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.05A
Specification	18 ±10%	72 (Maximum)	Temperature Rise 40°C (Maximum)
1	18.11	60.5	OK
2	18.2	60.85	OK
3	17.97	60.96	OK
4	17.99	61.1	OK
5	17.95	60.91	OK
Average	18.04	60.86	OK

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

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Inductor			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003017	SD75-183KU	A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 3



PART NO.

MCS75-183KU

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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 CDR7.8 x 5 (ST) B2.9 F2.5
2	Wire	Ø0.06mm x 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3% / Cu0.7%
4	Glue	TH320

Part Number Table

Description	Part Number
Inductor, 18MH, 10%, SMD	MCS75-183KU

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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Farnell	23/02/11

DRAWING TITLE:			
Inductor			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003017	SD75-183KU	A
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3