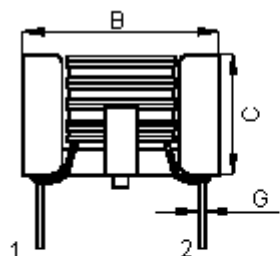
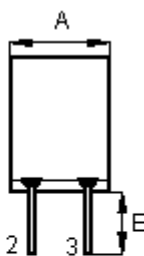


ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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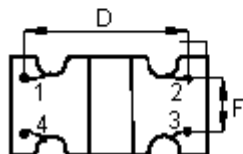
## Configurations and Dimensions



Front View



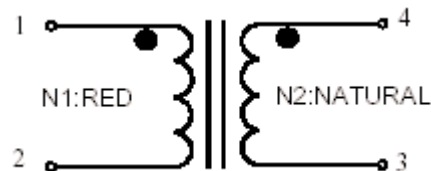
Side View



Bottom View

A	6.4 mm	(Max.)
B	7.5 mm	
C	8 mm	
D	5.08 ±0.5 mm	-
E	3.5 ±1 mm	-
F	2.54 ±0.3 mm	-
G	Ø0.6 ±0.1 mm	-

## Schematic Diagram



Note: N1 : N2 = 1 : 1

- Wire UEFN/U (155°C) Ø0.25mm × 2 (Red/Natural)
- 14TS (Reference) C.W



## Test Data for Mechanical

Test Item	A mm	B mm	C mm	D 1.mm	E mm	F mm	G mm
Specification	6.4 (Max.)	7.5 (Max.)	8 (Max.)	5.1 ±0.5	3.5 ±1	2.5 ±0.3	Ø0.6 ±0.1
1	6.02	7.27	7.56	5.08	3.56	2.5	0.57
2	6.03		7.47	5.02	3.62	2.51	0.56
3	6.05	7.28	7.48	5.05	3.58	2.5	0.57
4	6.01	7.26	7.51	5.07	3.57	2.54	0.58
5	6.04	7.24	7.63	5.08	3.7	2.53	0.57
Average	6.03	7.26	7.53	5.06	3.61	2.52	0.57

## Electrical Characteristics

Test Condition		
10 KHz / 50 mA	L	60 µH ±35%
T <sub>a</sub> = 25°C	DCR	50 mΩ (Max.)
100 MH	Z	1,400 Ω (Typ.)

Operating temperature : -25°C to +85°C

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### DATE:

04/05/11

### DRAWING TITLE:

EMI Filter

SIZE  
A

DWG NO.

M10002598

ELECTRONIC FILE  
MCAS648075-600U

REV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



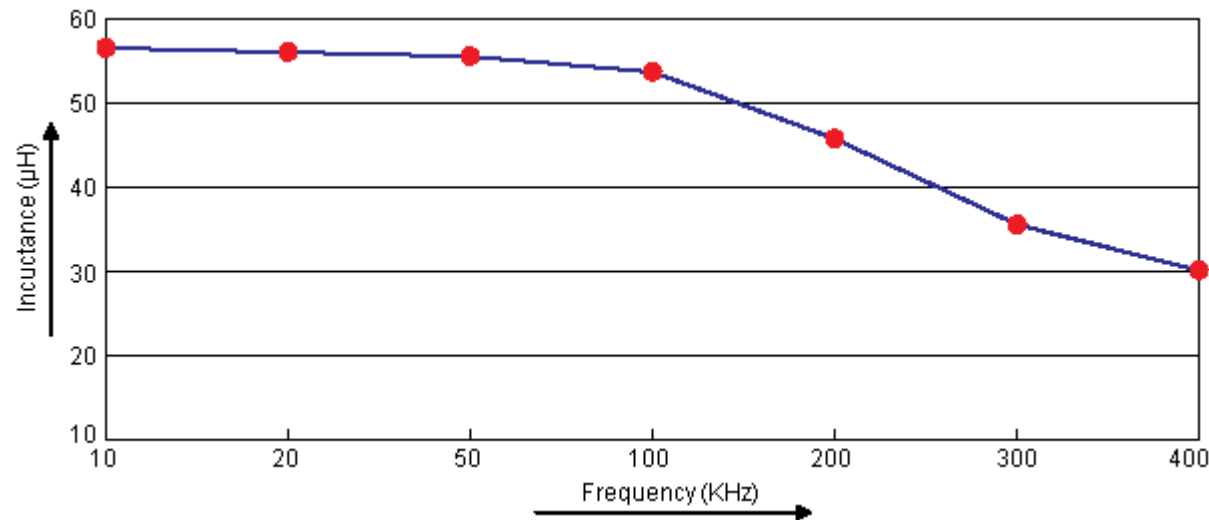
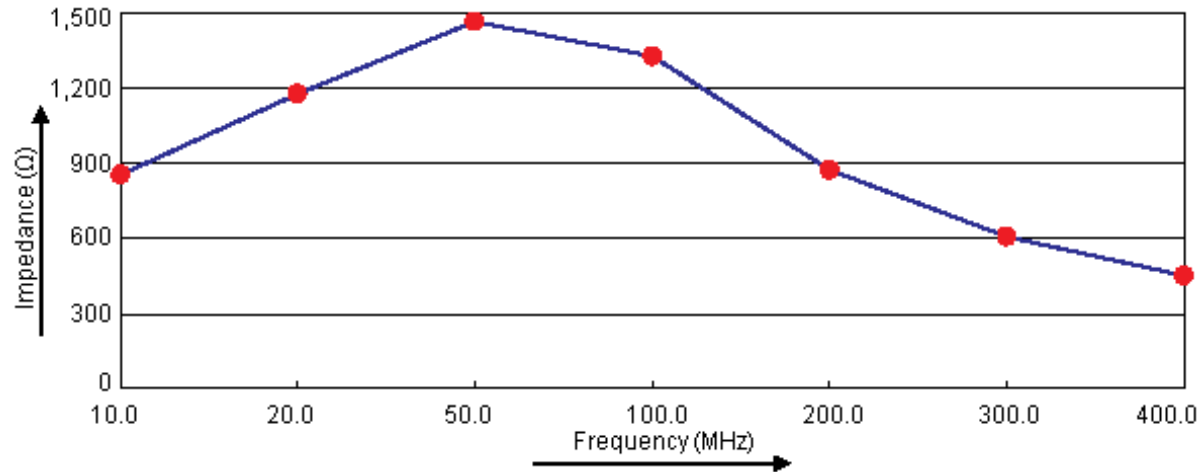
PART NO.

MCAS648075-600U

## REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

## Electric Characteristics



## Test Data for Electrical

Test Item	L μH	DCR mΩ	Z Ω
Condition	10 KHz / 50 mA	at 25°C	100 MH
Specification	60 ±35%	50 (Max.)	1,400 (Typ.)
1	51.58	42.81	1,329
2	56.53	42.59	1,315
3	53.06	43.29	1,255
4	51.48	43.95	1,345
5	53.32	44.16	1,306
Average	53.19	43.36	1,310

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DATE:

20/04/11

DATE:

04/05/11

DRAWING TITLE:

## EMI Filter

SIZE  
A

DWG NO.

M10002598

ELECTRONIC FILE  
MCAS648075-600UREV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCAS648075-600U

## REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

## Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-25°C to +180°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 ±5% Inductance change : Within ±5%	According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hrs 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 95% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hrs Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0 / -0.5 s

## Material List

No.	Item	Material Description
1	Core	S2K T4.3 × 1.5 × 2.8C (Green)
2	Wire	UEFN/U (155°C) Ø0.25 mm × 2 (Red / Natural)
3	Solder	Sn99.3% / Cu0.7%
4	Base	BA401-3.5 mm

## Part Number Table

Description	Part Number
EMI Filter, 60µH min, 500mA, 50V	MCAS648075-600U

<http://www.element14.com><http://www.farnell.com><http://www.newark.com>

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## DATE:

04/05/11

## DRAWING TITLE:

## EMI Filter

SIZE  
A

DWG NO.

M10002598

ELECTRONIC FILE  
MCAS648075-600UREV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3