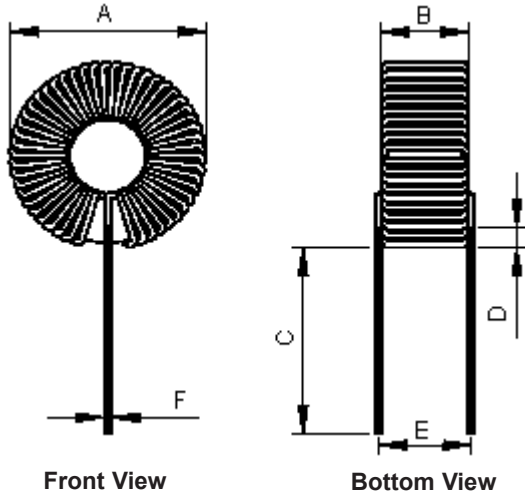


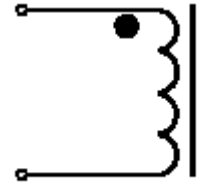
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

Configurations and Dimensions



A	44 mm	(Max.)
B	15.5 mm	
C	12 ±1 mm	-
D	1 mm	(Min.)
E	13.5 ±1.5	-
F	Ø1 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U 1mm (155°C)
2. 63TS (Reference) C.W



Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	44 (Max.)	15.5 (Max.)	12 ±1	1 (Min.)	13.5 ±1.5	Ø1 (Ref.)
1	41.76	14.01	12.25	2.73	13.52	1.01
2	41.96	14.17	12.15	2.92	13.3	1
3	41.84	13.88	12.3	2.86	13.58	1.01
4	41.83	15.15	12.18	3.01	13.48	1
5	41.96	14.42	12.08	3.12	13.52	1
Average	41.87	14.33	12.19	2.93	13.48	1

Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L	380 µH ±20%
T _a = 25°C	DCR	70 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 10.5 A (Max.)	ΔT	Temperature rise 40°C (Max.)

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

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DATE:

20/04/11

APPROVED BY:

DATE:

04/05/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002597

ELECTRONIC FILE

MCAP115018062A-381MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 4



PART NO.

MCAP115018062A-381MU

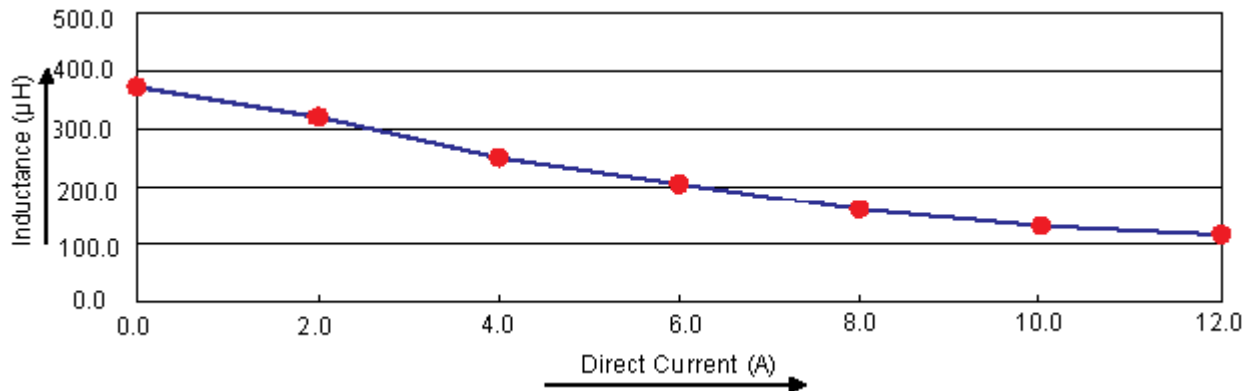
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Test Data for Electrical

Test Item	L μ H	DCR m Ω	Δ T
Condition	10 KHz / 5 mA	at 25°C	10 KHz / 5 mA $I_{rms} = 10.5$ A (Max.)
Specification	380 \pm 20%	70 (Max.)	Temperature rise 40°C (Max.)
1	352.89	61.22	OK
2	350.77	60.02	
3	349.64	60.09	
4	359.38	60.3	
5	354.16	61.04	
Average	353.37	60.53	OK

Electric Characteristics



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Inductor

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A

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ELECTRONIC FILE

MCAP115018062A-381MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 4



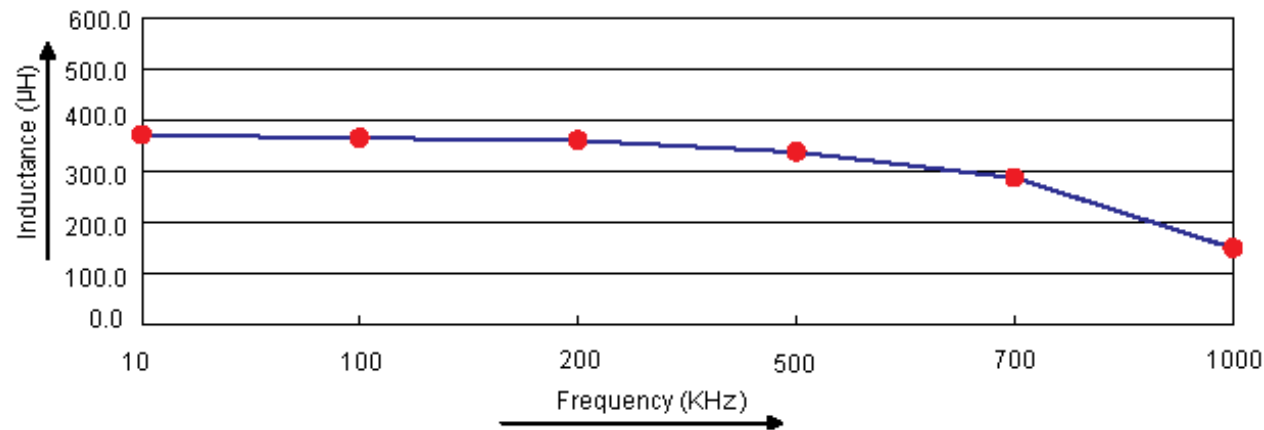
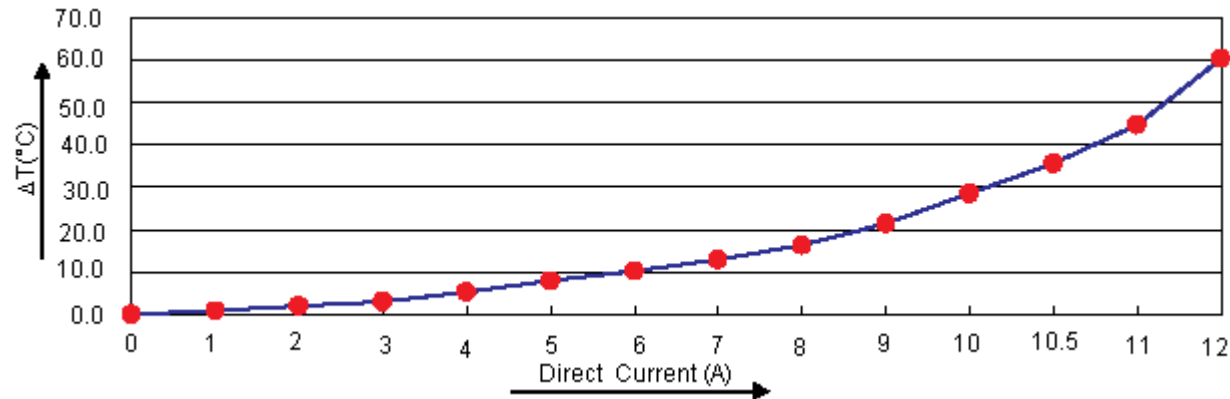
PART NO.

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REVISIONS

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Electric Characteristics



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InductorSIZE
A

DWG NO.

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ELECTRONIC FILE

MCAP115018062A-381MU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 4



PART NO.

MCAP115018062A-381MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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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 ±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	T150-75-TAF200 (Red / White)
2	Wire	UEFN/U 1mm (155°C)
3	Solder	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 380μH, 20%, 2 Pins	MCAP115018062A-381MU

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

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DRAWING TITLE:

Inductor

SIZE
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M10002597

ELECTRONIC FILE
MCAP115018062A-381MUREV
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SCALE: NTS

U.O.M.: mm

SHEET: 4 OF 4