

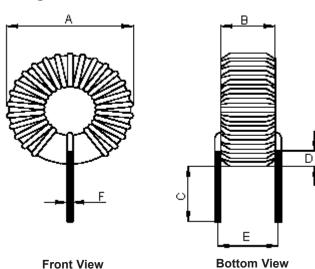
MCAP115018047A-221MU

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

RoHS

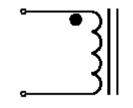
Compliant

Configurations and Dimensions



Α	43 mm	(Max.)		
В	15 mm	(IVIAX.)		
С	12 ±1 mm	-		
D	1 mm	(Min.)		
Е	13 ±1.5 mm	-		
F	Ø1.1 mm	(Max.)		

Schematic Diagram





- 1. Wire UEFN/U Ø1mm (155°C)
- 2. 49TS (Reference) C.W

W Bottom View

Test	A	В	С	D	E	F	
Item	43	mm 15	mm	mm 1	mm	mm Ø1.1	
Specification	(Max.)	(Max.)	12 ±1	(Min.)	13 ±1.5	(Max.)	
1	41.75	14.13	11.11	4.48	13.89	1.02	
2	41.67	14.21	11.23	3.47	13.67	1.03	
3	41.85	14.24	11.7	4.14	13.46	0.99	
4	41.81	14.06	11.93	3.46	13.66	0.97	
5	41.83	14.11	11.59	4.12	13.00	1.01	
Average	41.78	14.15	11.51	3.93	13.67	1	

Test Data for Mechanical

Test Condition		
10 KHz / 5 mA	L	220 μH ±20%
T _a = 25°C	DCR	60 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 11 A	ΔΤ	Temperature rise 40°C (Max.)

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

Electrical Characteristics

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DRAWI	NG TITLE:						
Inductor							
SIZE A	DWG NO.	M10002596	ELECTRONIC FILE MCAP115018047A-221MU			REV A	
SCALE: NTS		U.O.M.: mm	·	SHEET:	1	OF	4



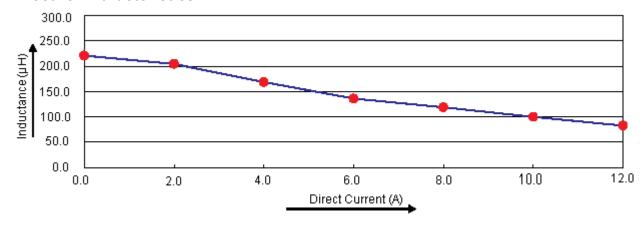
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Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ
Condition	10 KHz / 5 mA	at 25°C	10 KHz / 5 mA I _{rms} = 11 A
Specification	220 ±20%	60 (Max.)	Temperature rise 40°C (Max.)
1	220.2	45.74	
2	220.6	45.94	
3	220.1	45.58	ОК
4	217.8	45.38	
5	221.9	45.76	
Average	220.12	45.68	ОК

Electric Characteristics



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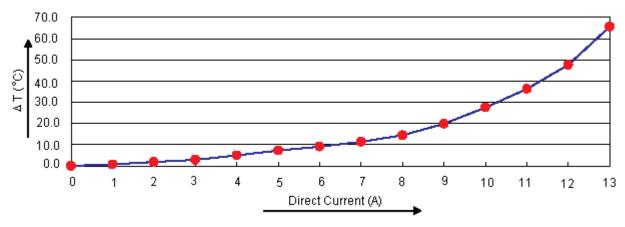
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1	Inductor							
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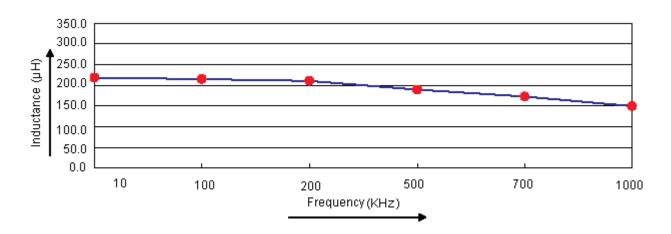


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Electric Characteristics





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	Inductor						
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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	T150-75H-TAF200 (Red / White)		
2	Wire	Ø1 mm UEFN/U (155°C)		
3	Solder	Sn99.3% / Cu0.7%		

Part Number Table

Description	Part Number			
Inductor, 220µH, 20%, 2 Pins	MCAP115018047A-221MU			

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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	Inductor						
:	SIZE DWG NO. A SCALE: NTS			ELECTRONIC FILE			REV
			M10002596	MCAF	MCAP115018047A-221MU		
:			U.O.M.: mm	•	SHEET:	4 0	 F 4