

SAW Filter 428.550MHz

Model: TA1484A

Part No: MP04692

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 15dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	428.55	-
3dB BW	kHz	-	680	-
Upper frequency of 3dB relative to minimum IL	MHz	428.75	-	
Lower frequency of 3dB relative to minimum IL	MHz	-	-	428.35
Minimum insertion loss IL (min)				
Exclude loss in matching elements *1)	dB	-	2.0	3.0
Incl. loss of matching elements (Q = 77) *2)	dB	-	2.3	3.3
Attenuation (relative to IL min) *1)				
@ f = 407.1MHz	dB	47	54	-
@ f = 417.8MHz	dB	40	54	-
@ f = 427.5MHz	dB	15	23	-
@ f = 429.5MHz	dB	15	18	-
@ f = 439.2MHz	dB	40	55	-
@ f = 449.9MHz	dB	47	54	-
@ f = 1000.0MHz	dB	47	68	-
Impedance at Fc Input *1) $Z_{IN} = R_{IN} // C_{IN} Z_S$	1232Ω // 1.52pF			
Impedance at Fc Output *1) $Z_{OUT} = R_{OUT} // C_{OUT} Z_L$	1232Ω // 1.52pF			

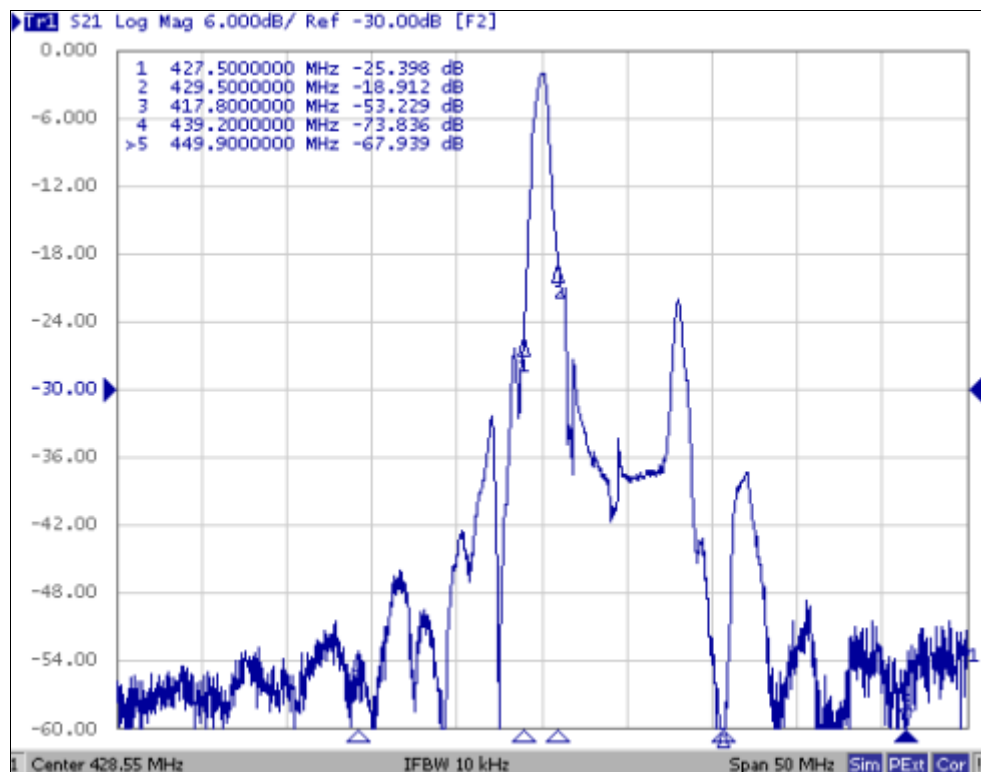
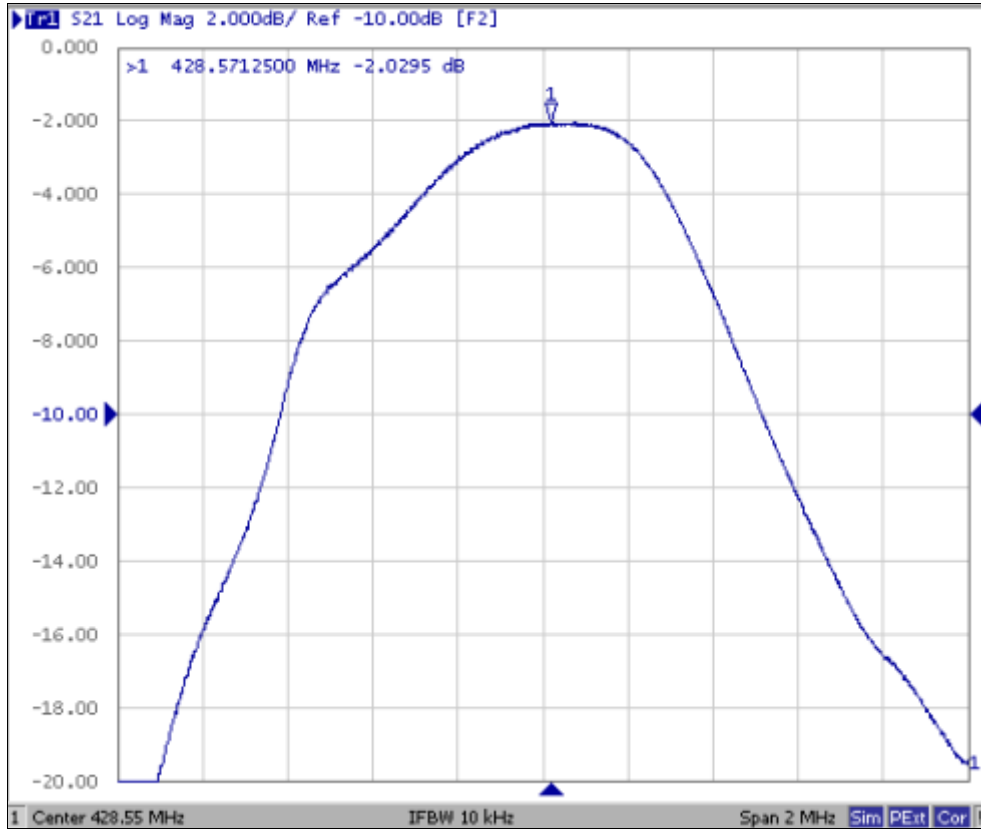
*1): The matching circuit is ideal by simulation.

*2): The matching circuit is real by actual passive components.
 0805 Coilcraft CS series chip conductor is used for inductor.
 0402 muRata GRM series is used for capacitor.

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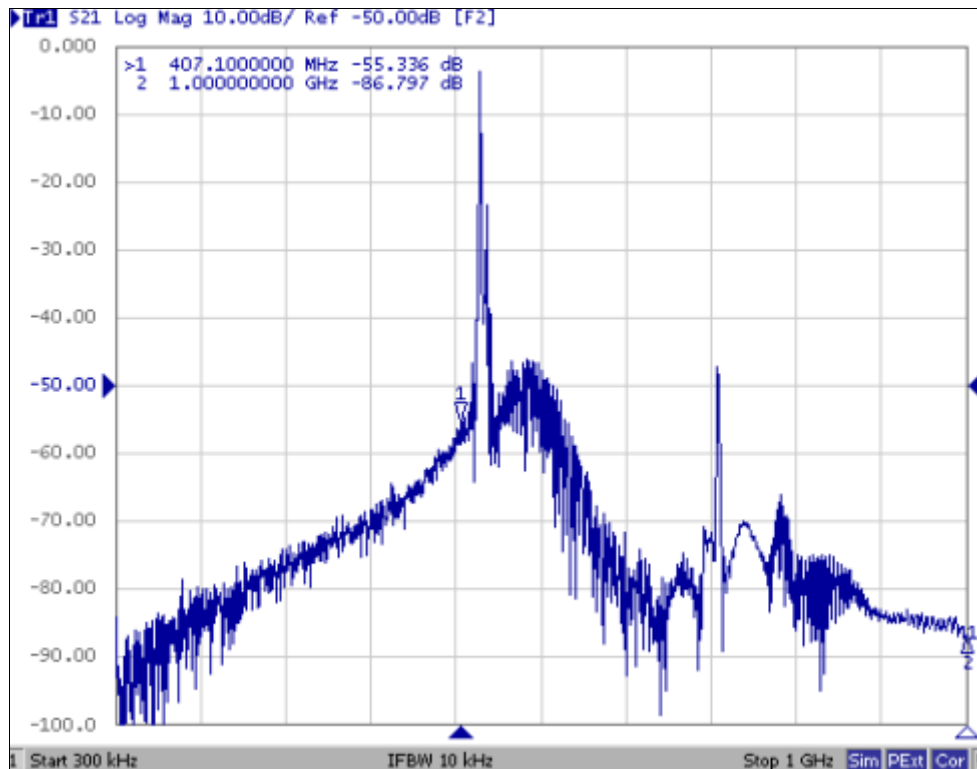
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C. FREQUENCY CHARACTERISTICS:



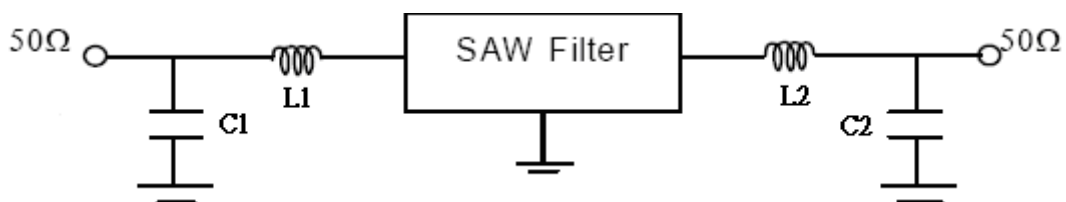
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D. MEASUREMENT CIRCUIT:

The matching circuit is ideal by simulation

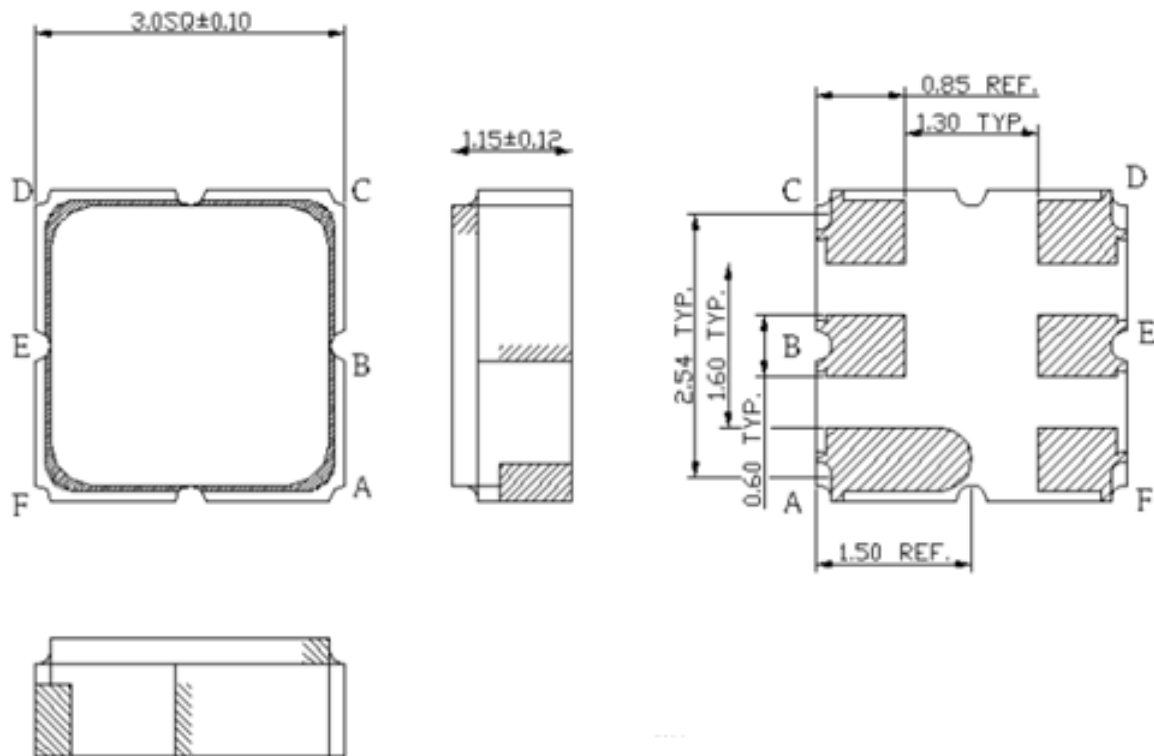


L1: 92nH, L2: 92nH (Ideal value)
C1: 2pF, C2: 2pF (Ideal value)

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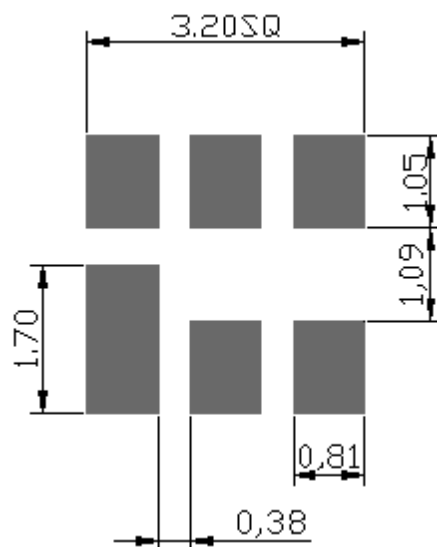
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E. OUTLINE DRAWING:



B: Input
E: Output
A, C, D, F: Ground
Unit: mm

F. PCB FOOTPRINT:



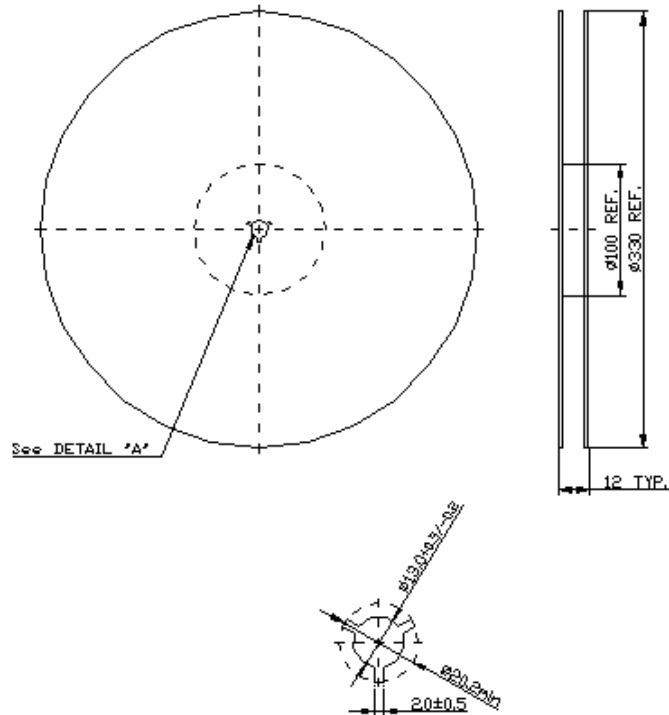
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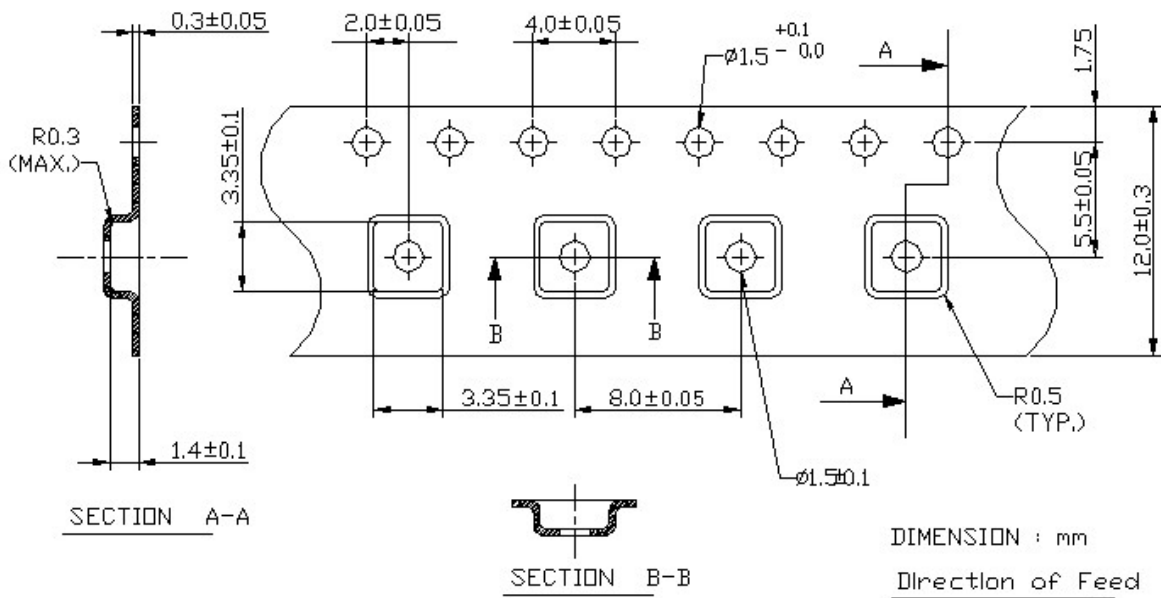
G. PACKING:

1. Reel Dimension

7" reel = 1000 typ, 13" reel = 3000 typ, or per the request of customer order.



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

