

SAW Filter 447.40MHz
Part No: MP05189

Model: TA1563A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 10dBm
2. DC Voltage: 6V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

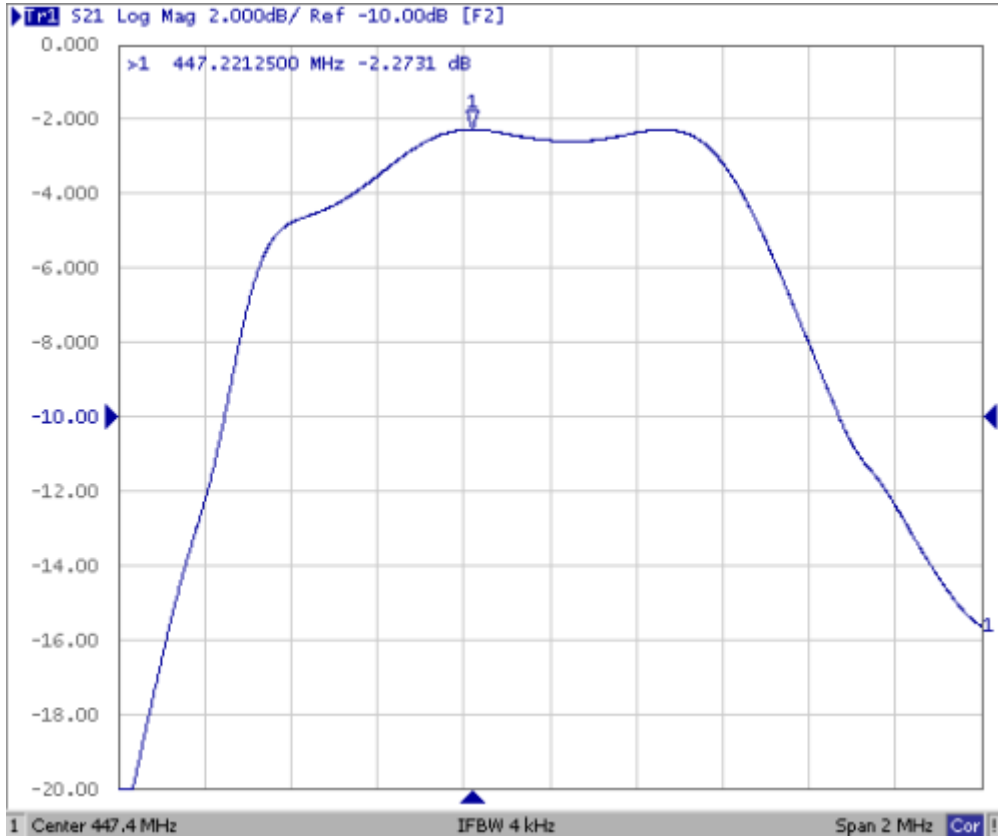
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	447.4	-
3dB BW	kHz	-	1100	-
Minimum insertion loss IL (min)				
Incl. loss of matching elements (Q = 78) *1)	dB	-	2.3	3.3
Exclude loss in matching elements *2)	dB	-	2.0	3.0
Passband (relative to IL min) *1)				
447.10 ~ 447.70MHz	dB	-	0.4	3.0
Attenuation (relative to IL min) *1)				
10.000 ~ 430.00MHz	dB	35	48	-
442.30 ~ 445.40MHz	dB	20	27	-
449.60 ~ 452.80MHz	dB	20	27	-
465.00 ~ 600.00MHz	dB	36	51	-
Impedance at Fc Input *1) $Z_{IN} = R_{IN} // C_{IN} Z_S$	Ω	225 Ω // 1.19pF		
Impedance at Fc, Output *1) $Z_{OUT} = R_{out} // C_{OUT} Z_L$	Ω	222 Ω // 1.26pF		

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

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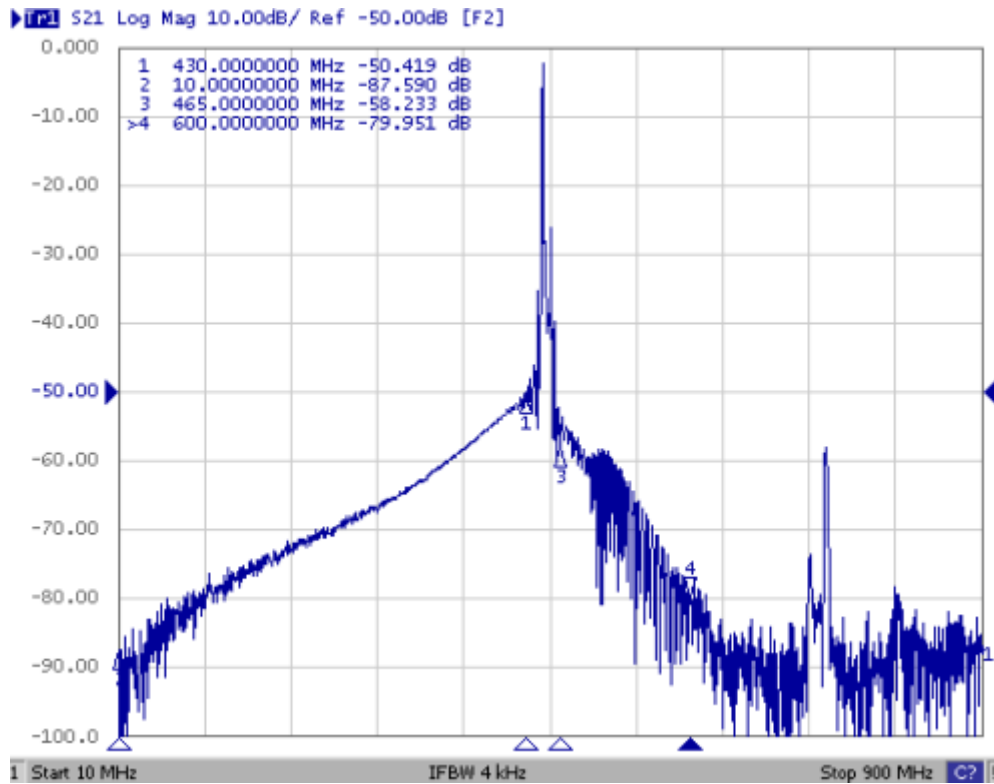
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C. FREQUENCY CHARACTERISTICS:



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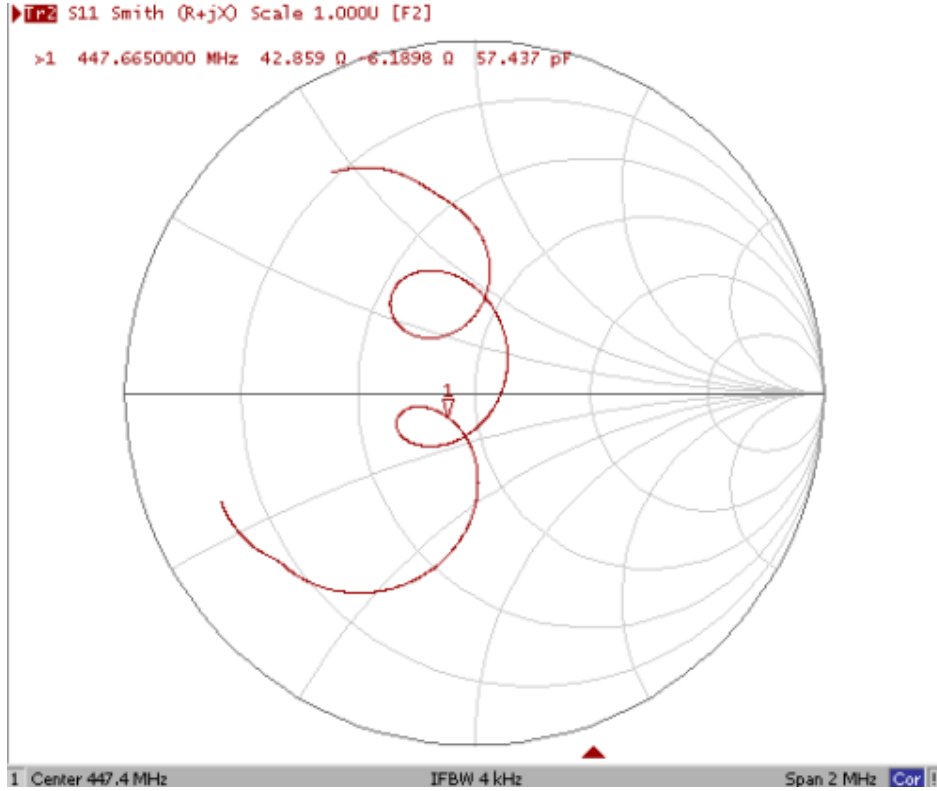
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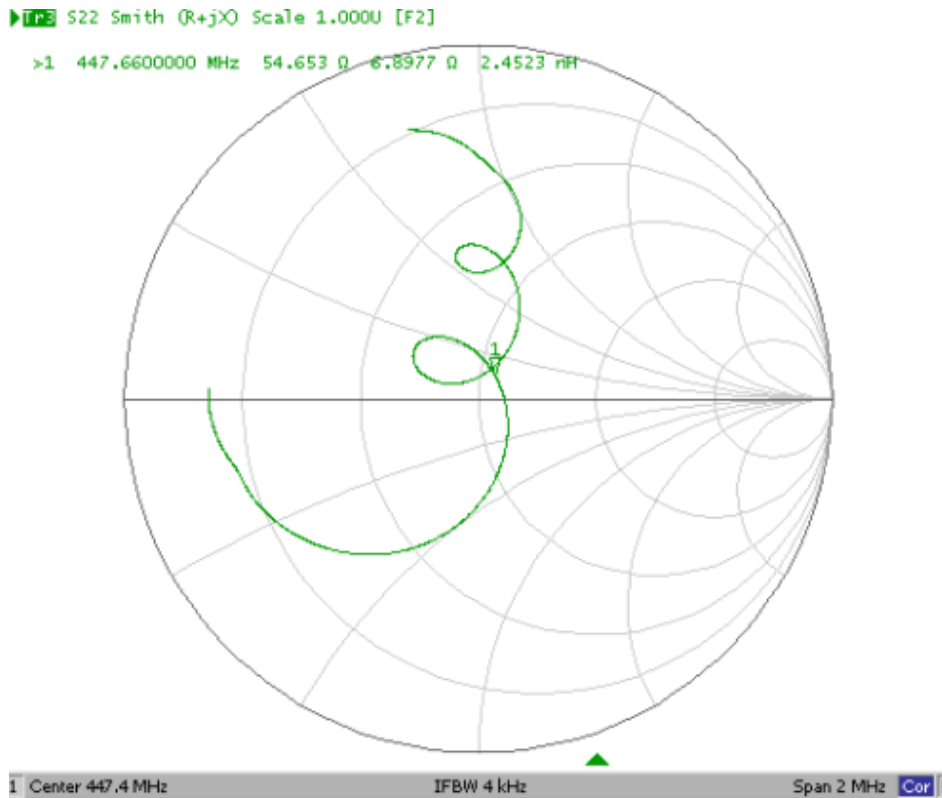
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Smith Chart S11



Smith Chart S22

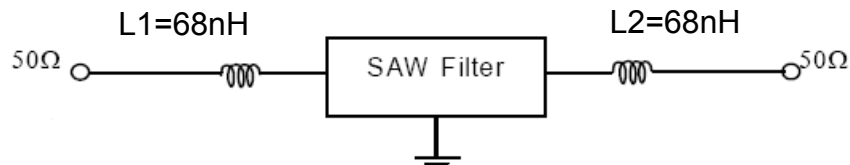


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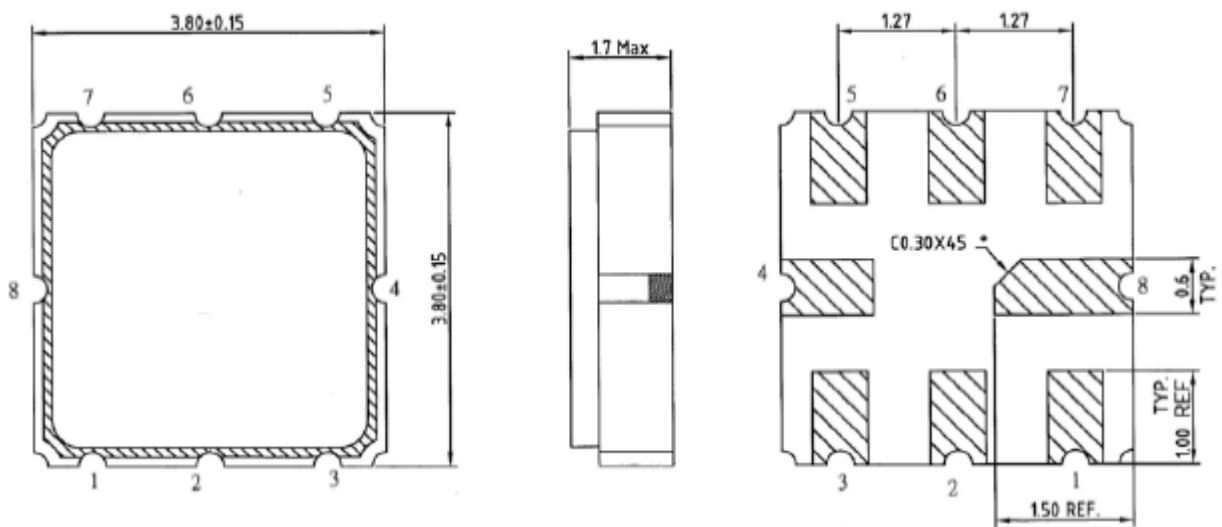
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D. MEASUREMENT CIRCUIT:

The matching circuit is real by actual passive components.

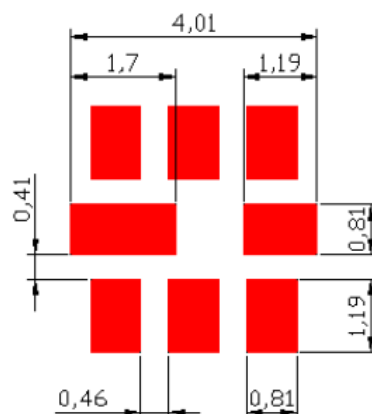


E. OUTLINE DRAWING:



- 1: Input ground (recommended) or Input
 - 2: Input (recommended) or Input ground
 - 5: Output ground (recommended) or Output
 - 6: Output (recommended) or Output ground
 - 3, 7: To be grounded
 - 4, 8: Case Ground
- Unit: mm

F. PCB FOOTPRINT:

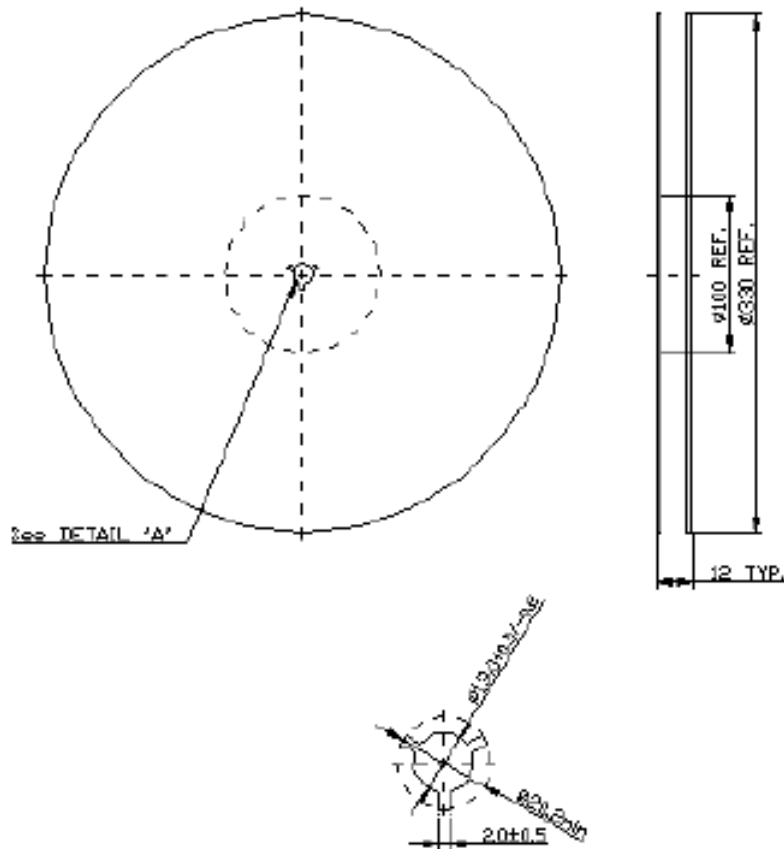


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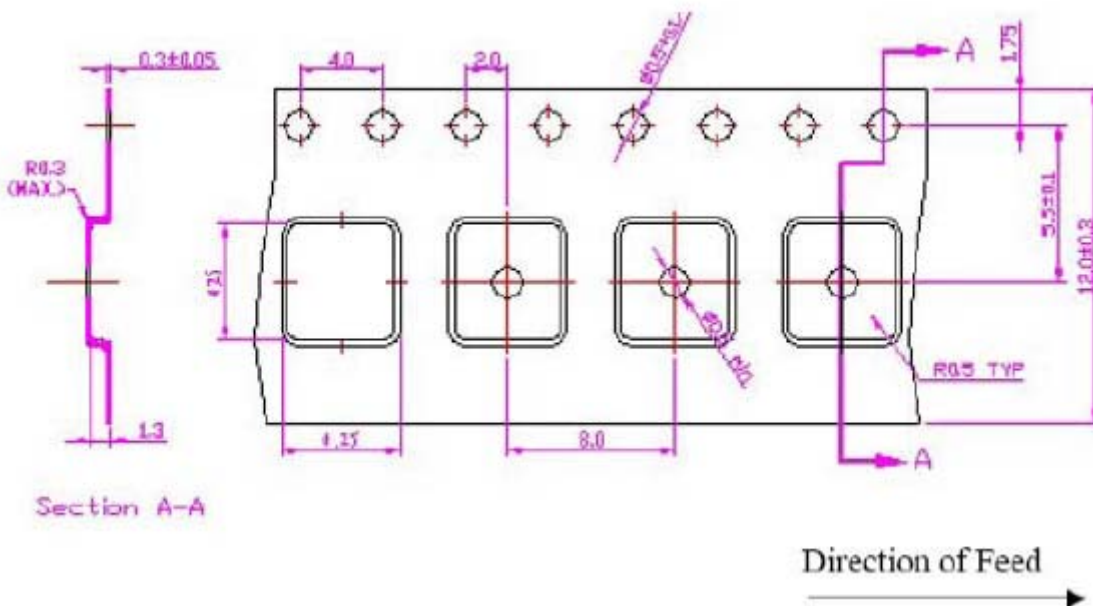
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G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

