

SAW Filter 161.86250MHz
Part No: MP07388

Model: TB1200A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. ELECTRICAL CHARACTERISTICS:

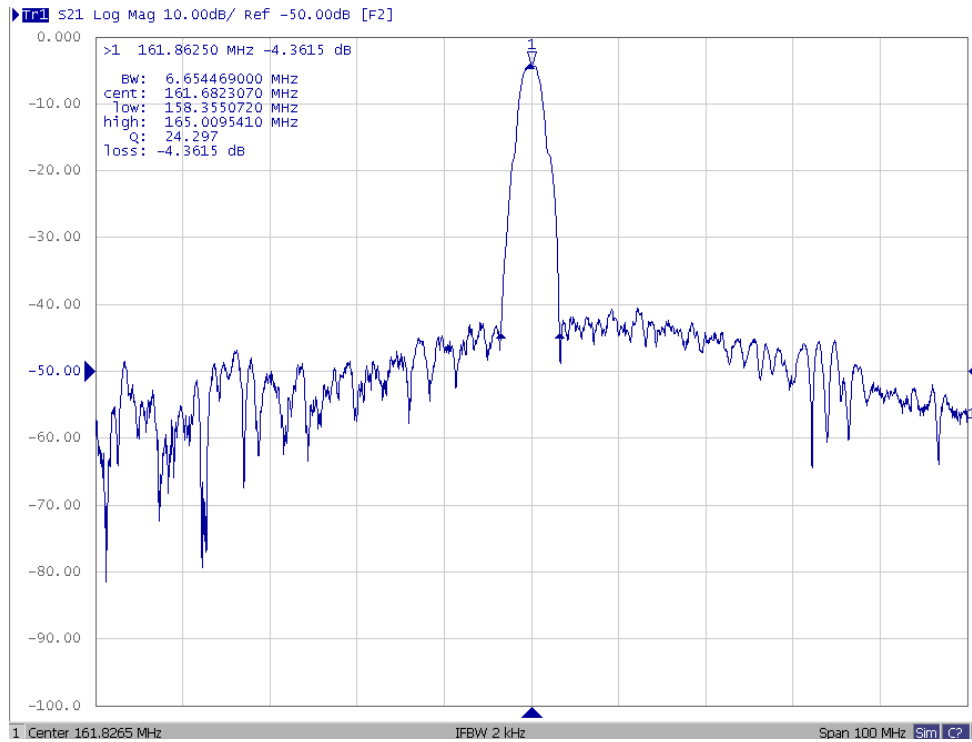
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	161.8625	-
Insertion Loss IL	dB	-	4.1	8
-1dB bandwidth	MHz	0.3	1.6	-
-3dB bandwidth	MHz	-	2.3	-
-40dB bandwidth	MHz	-	6.7	7
Passband Ripple (Fc ± 150kHz)	dB	-	0.4	1.0
Group delay variation (Fc ± 150kHz)	ns	-	110	500
Absolute Group delay	ns	-	600	-
Attenuation (Reference IL)				
150MHz ~ 153MHz	dB	30	40	
322MHz ~ 328.65MHz	dB	35	60	
406.1MHz ~ 410MHz	dB	35	60	
Fc +100MHz ~ Fc +900MHz	dB	35	60	
Temperature Coefficient	ppm/°C	-	-23	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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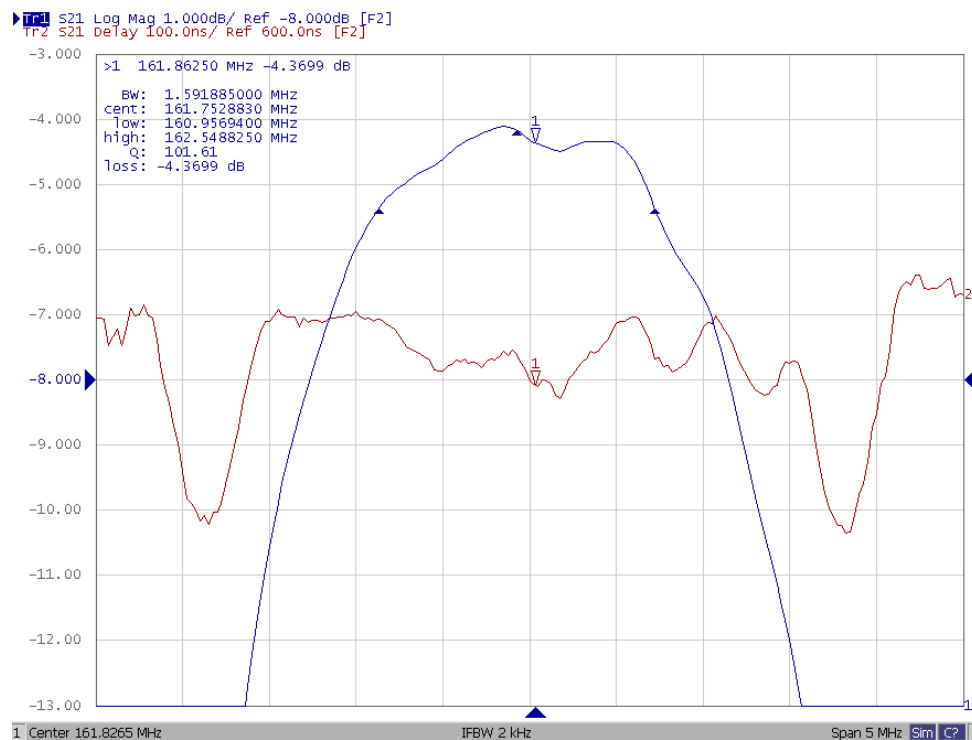
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C. FREQUENCY CHARACTERISTICS:

1. Narrow Band Response:



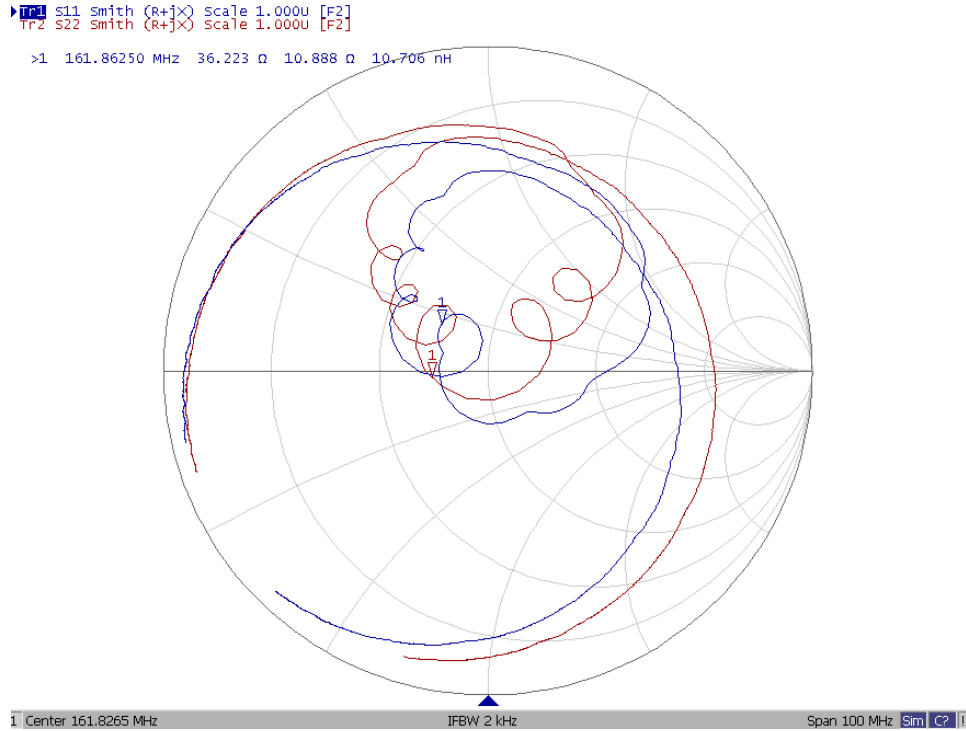
2. Pass Band Response and Group Time Delay Response:



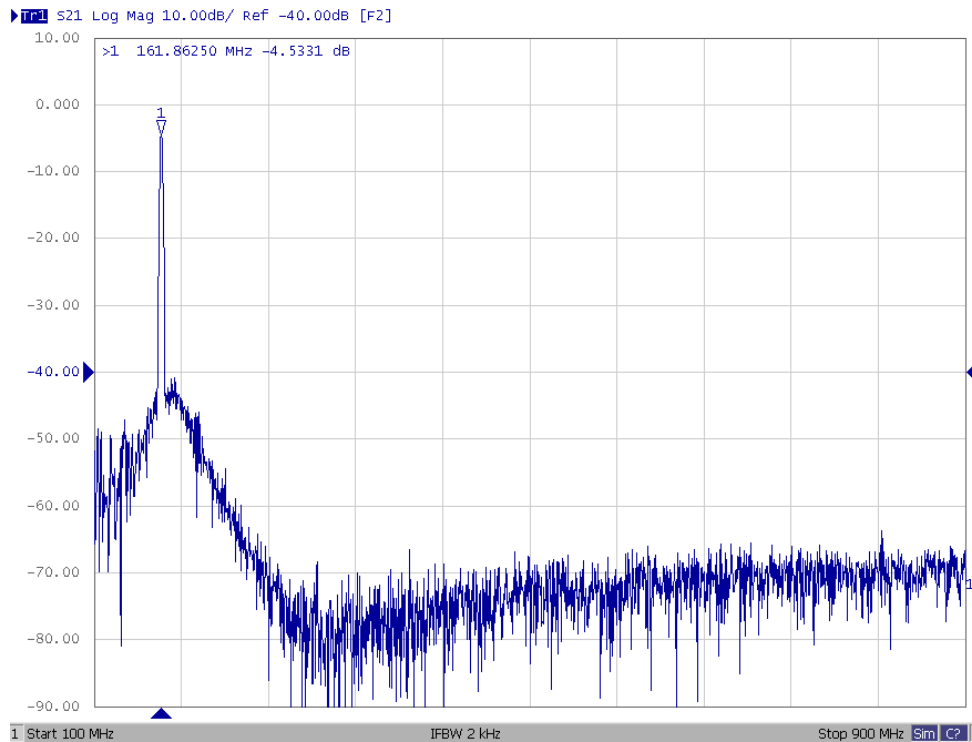
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3. Smith Chart:



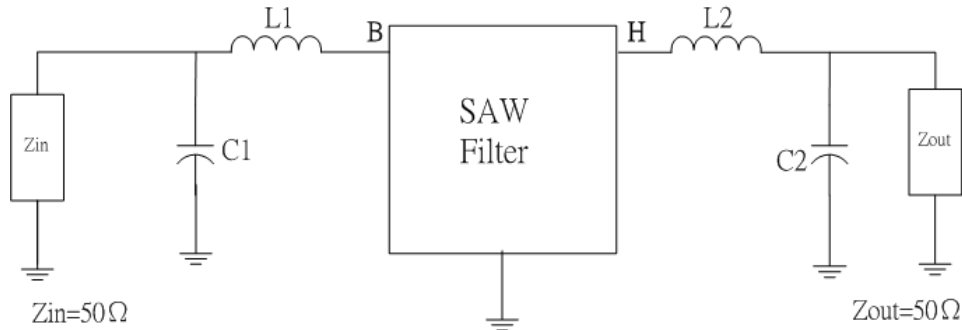
4. Wide Band Response:



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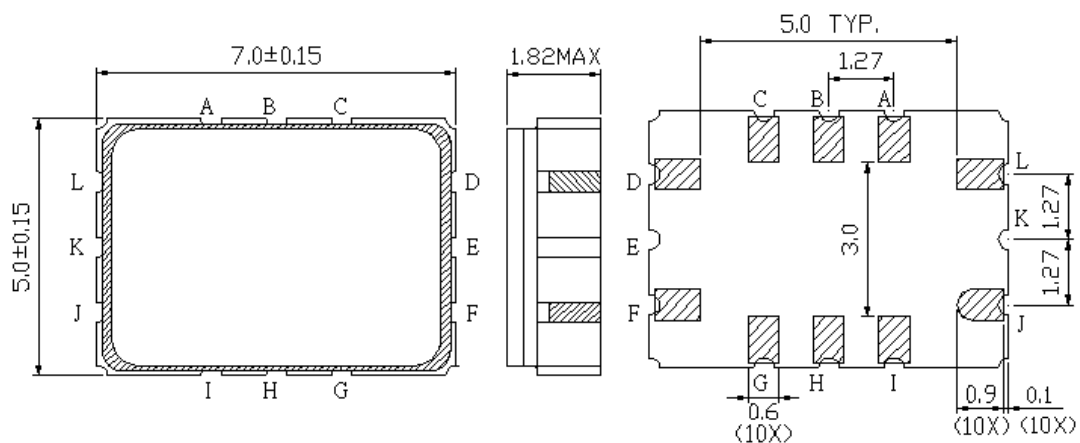
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D. MATCHING CIRCUIT:



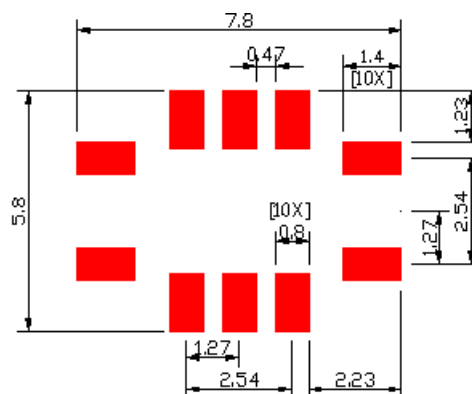
$L1 = 47\text{nH}, L2 = 47\text{nH} + 3\text{nH}, C1 = 39\text{pF}, C2 = 30\text{pF}$

E. OUTLINE DRAWING:



B: RF input
 H: RF output
 Others: Ground
 Unit: mm

F. PCB FOOTPRINT:

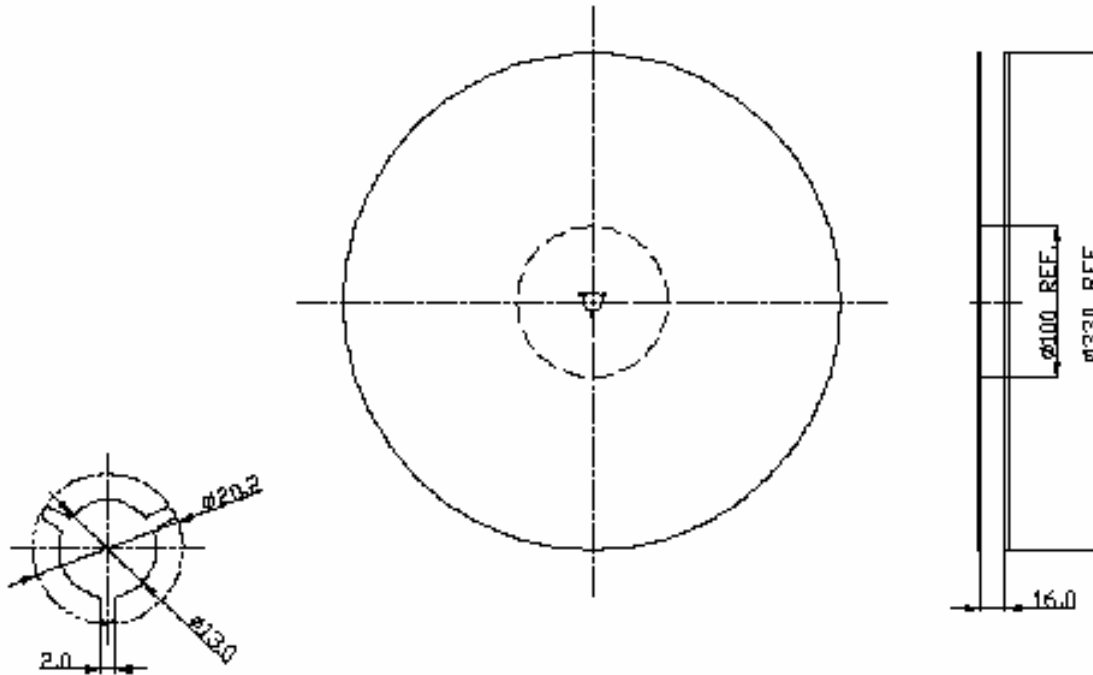


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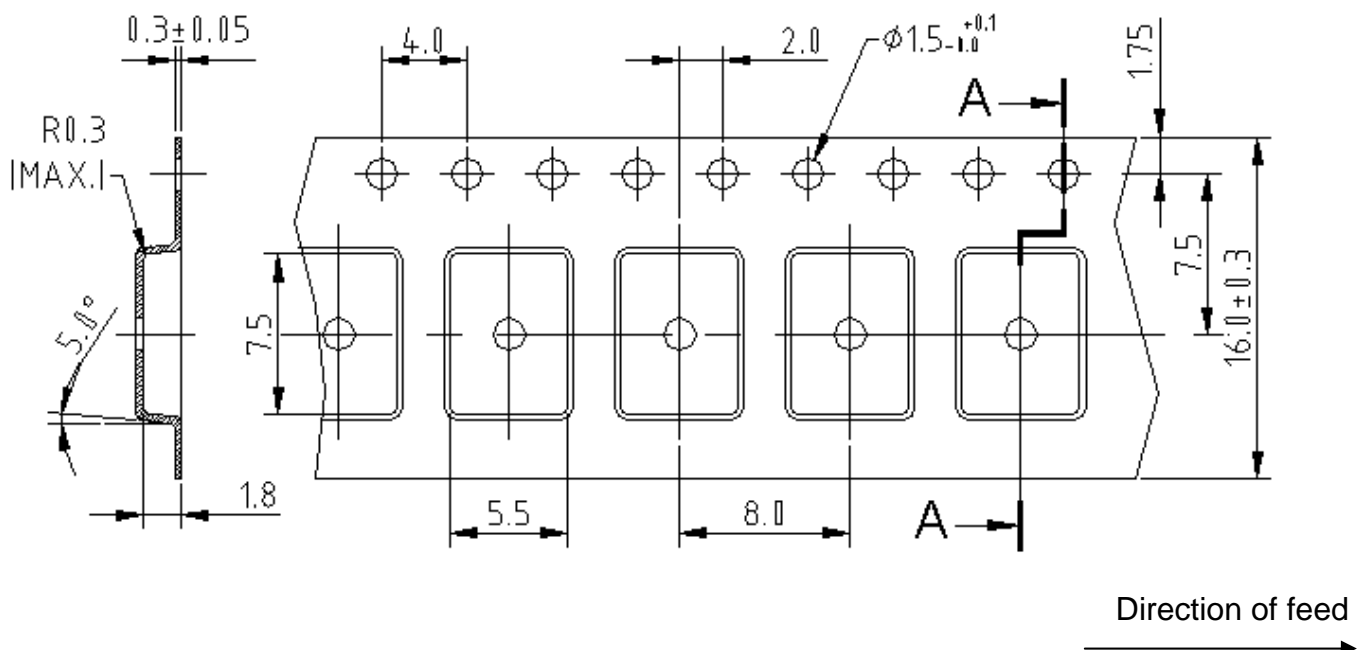
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G. PACKING:

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



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

