

SAW Filter 260.0MHz

Model: TB1240A

Part No: MP08229

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -20°C to 75°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Ambient Temperature: 25°C

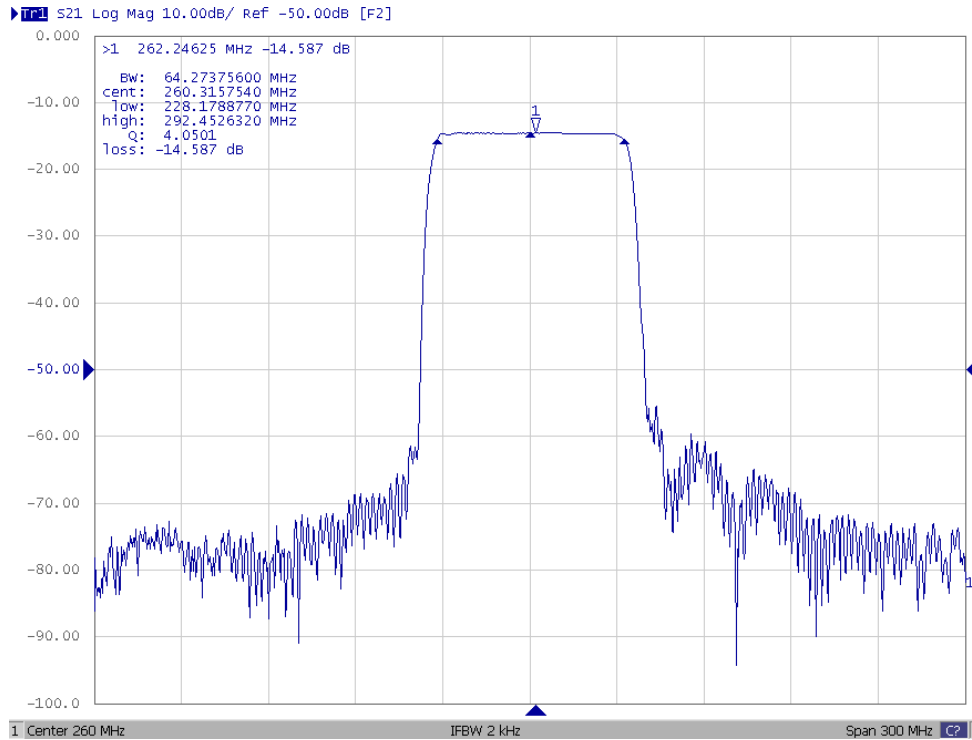
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	260	-
Insertion Loss IL	dB	-	14.5	17.0
-1dB bandwidth	MHz	60	64	-
Passband Ripple Fc ±30MHz	dB	-	0.5	1.0
Group Delay Variation Fc ±30MHz	ns	-	15	-
Absolute Delay at Fc	us	-	0.5	-
Attenuation: (Reference level from typical IL)				
10MHz ~ 200MHz	dB	40	50	-
320MHz ~ 440MHz	dB	40	45	-
440MHz ~ 520MHz	dB	35	39	-
520MHz ~ 1000MHz	dB	40	45	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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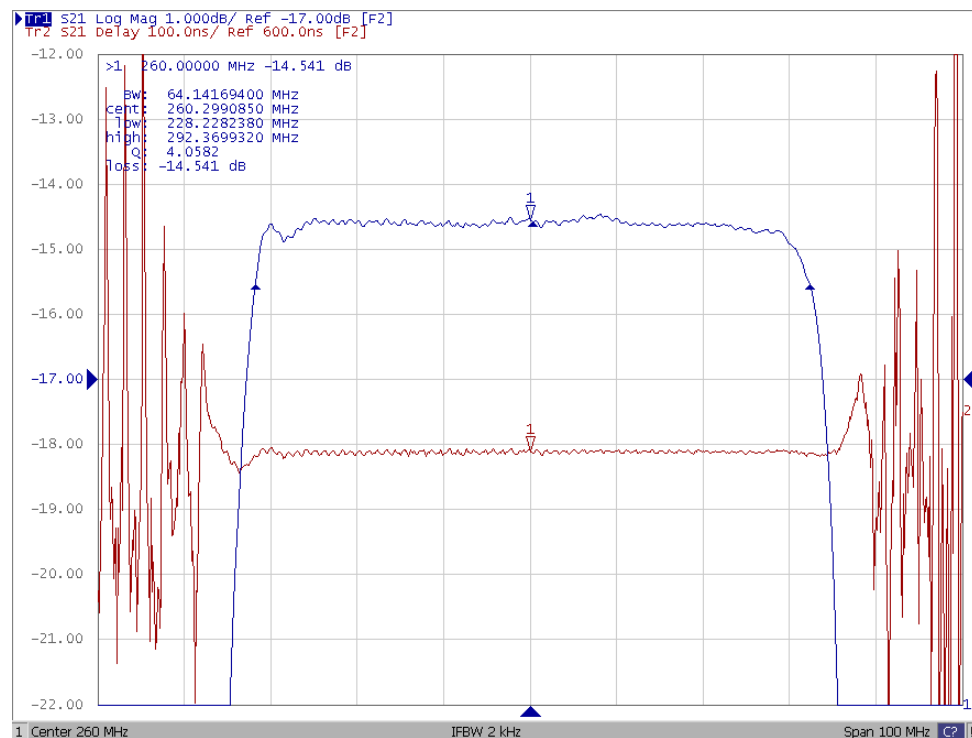
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C. FREQUENCY CHARACTERISTICS:

1. Narrow Band Response:



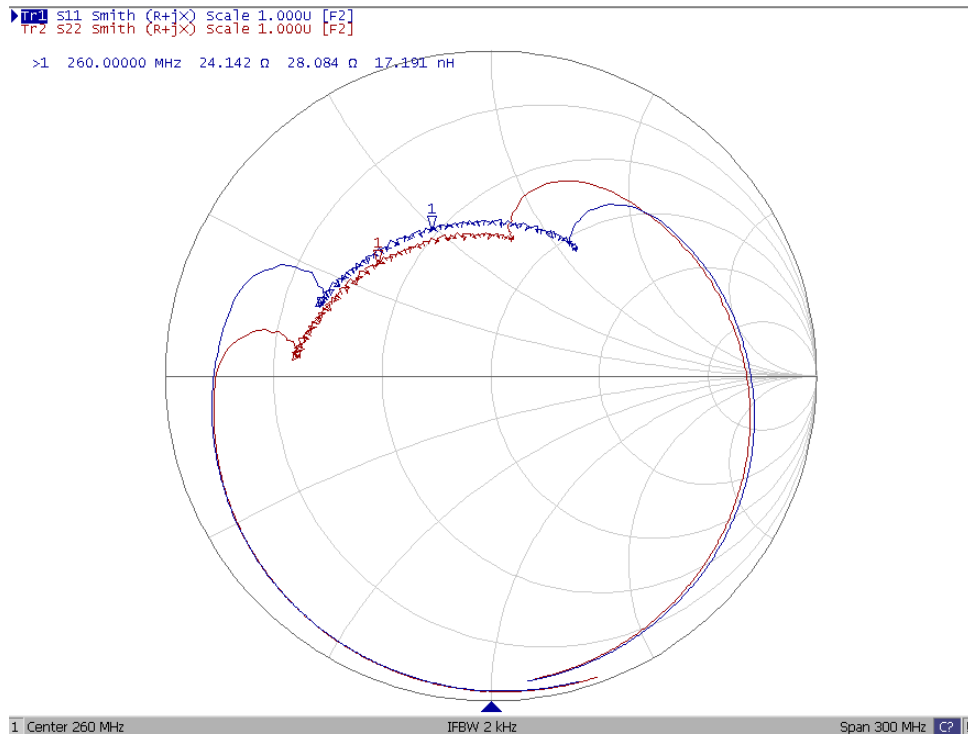
2. Pass Band Response and Group Time Delay Response:



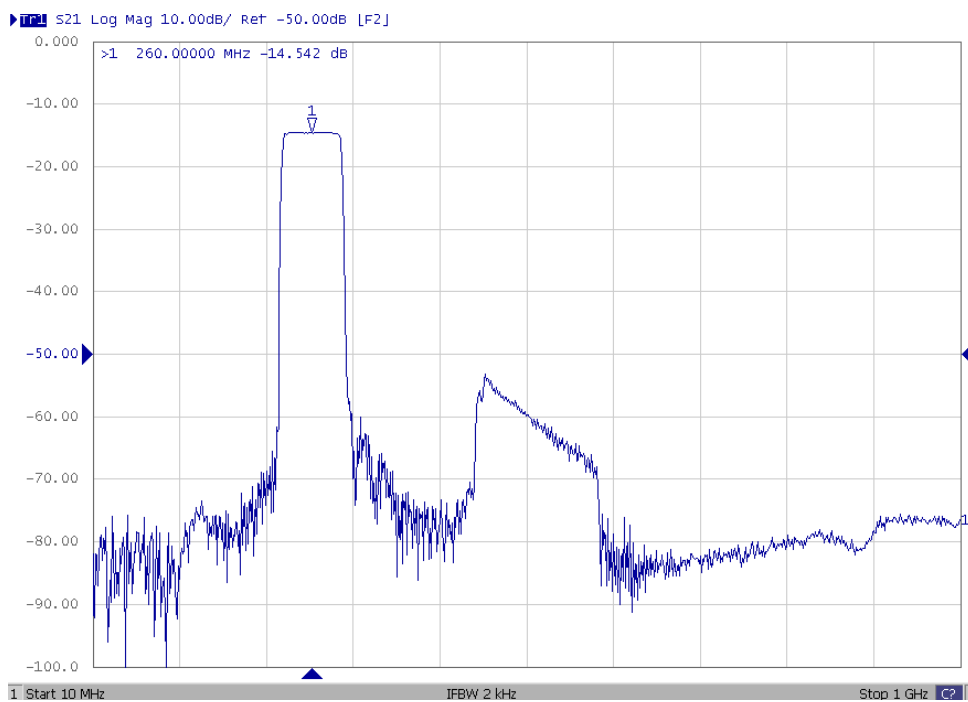
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3. Smith Chart:



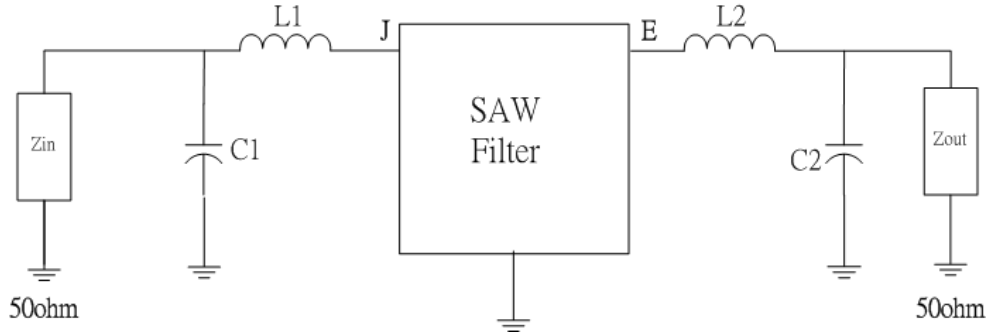
4. Wide Band Response:



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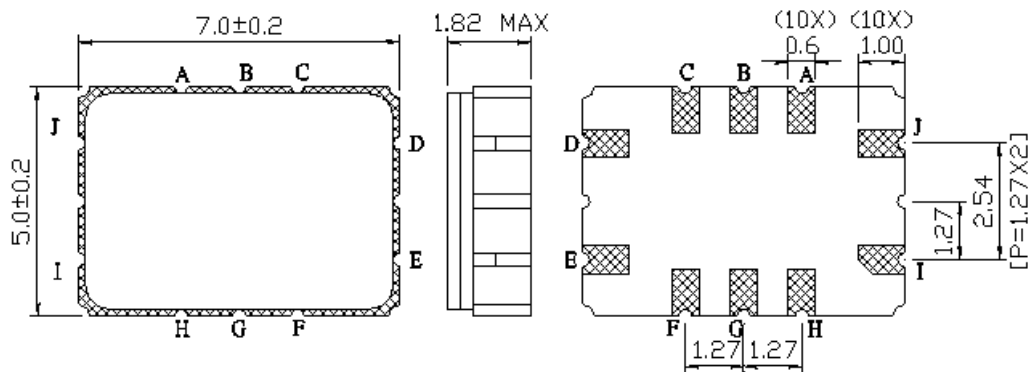
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D. MATCHING CIRCUIT:



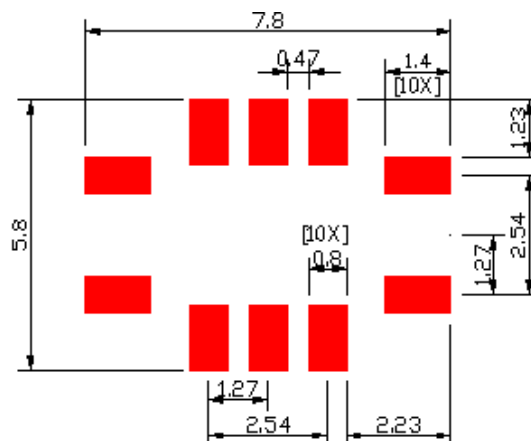
$L1 = 47\text{nH}$, $L2 = 47\text{nH}$, $C1 = 8\text{pF}$, $C2 = 8\text{pF}$

E. OUTLINE DRAWING:



J: RF Input
 E: RF Output
 A, B, C, D, F, G, H, I: To be ground
 Unit: mm

F. PCB FOOTPRINT:

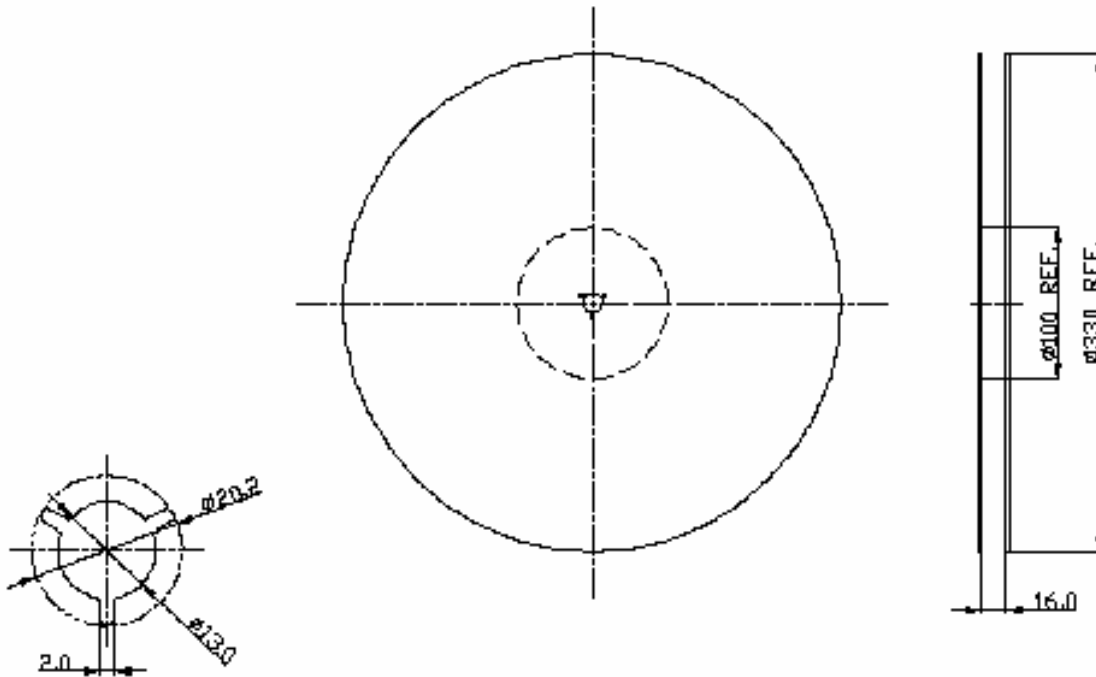


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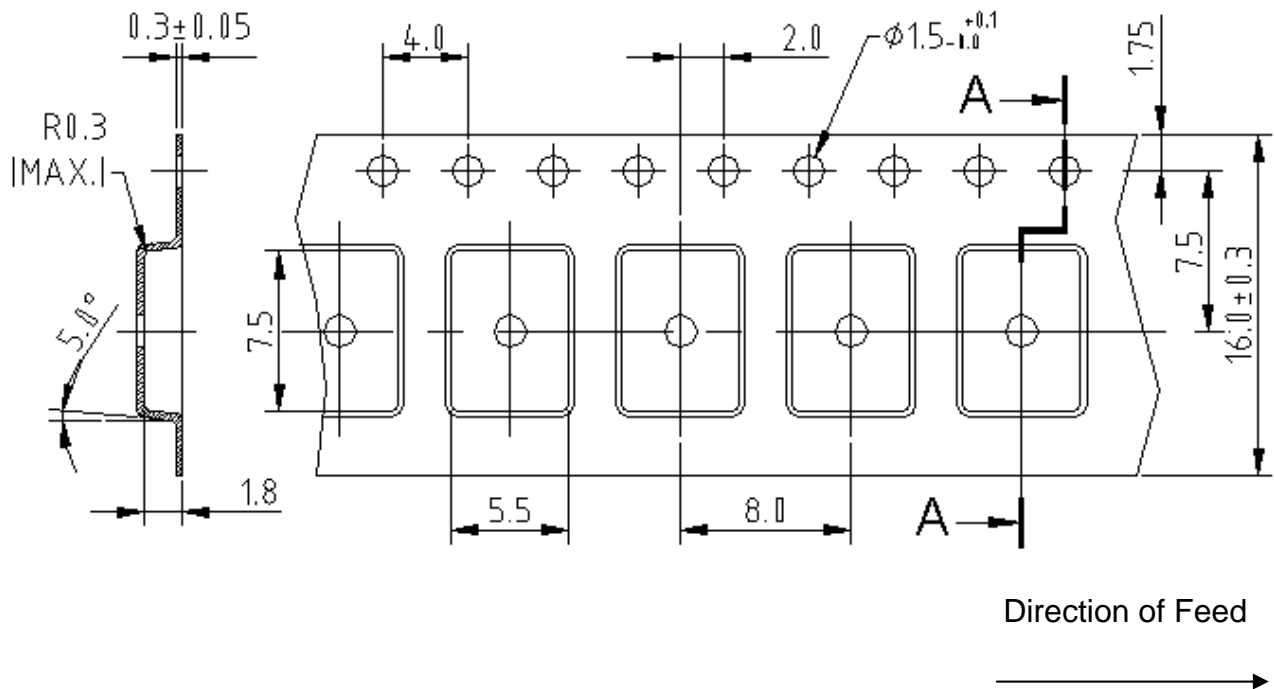
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G. PACKING:

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.

