

SAW Filter 545.0MHz
Part No: MP03905

Model: TB0749A
Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +75°C
2. Storage Temperature: -40°C ~ +85°C
3. Input power: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25°C

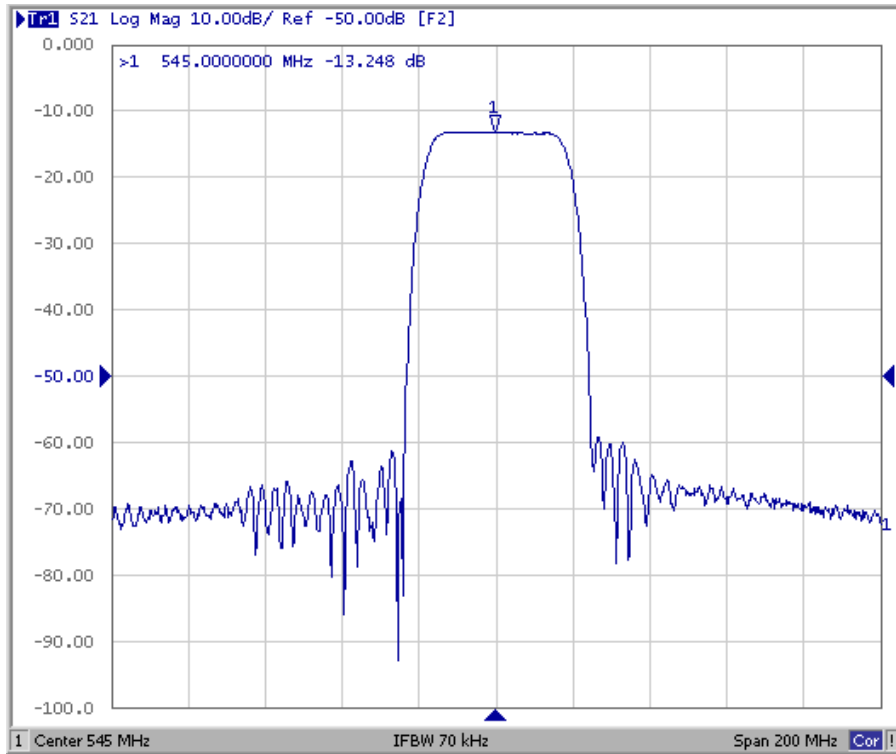
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	545.0	-	-
Minimum Insertion loss IL dB	-	13.2	14.0	-
Amplitude Ripple (530 ~ 560MHz) dB	-	0.5	1.5	
Group Delay Variation (530 ~ 560MHz) ns	-	12	45	
Absolute group delay (530 ~ 560MHz) ns	-	300	-	-
Attenuation (Reference level from 0dB)				
0 ~ 450MHz dB	50	65	-	-
476 ~ 506MHz dB	50	65	-	-
506 ~ 518MHz dB	45	60	-	-
620 ~ 638MHz dB	45	68	-	-
717 ~ 1000MHz dB	50	72		
1000 ~ 1500MHz dB	40	63		
Temp Coefficient ppm/K	-	-23	-	-
Matching: 1. The input of the filter will be matched to 50Ω 2. The output of the filter will be matched to 50Ω				

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Part No: MP03905

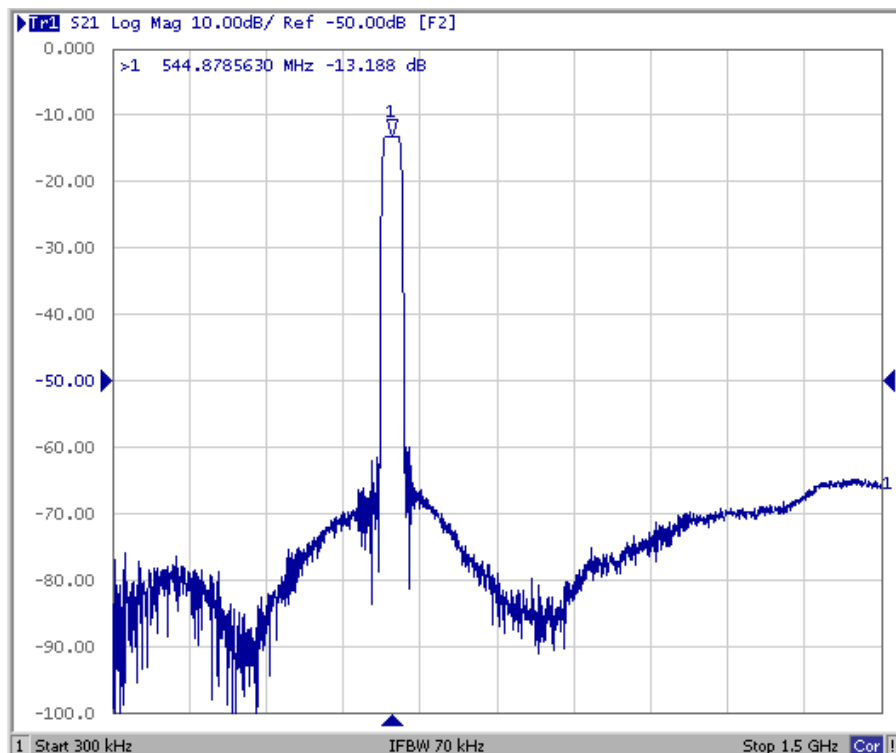
Model: TB0749A
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C. FREQUENCY CHARACTERISTICS:

1. S21 Response: (span 200MHz)



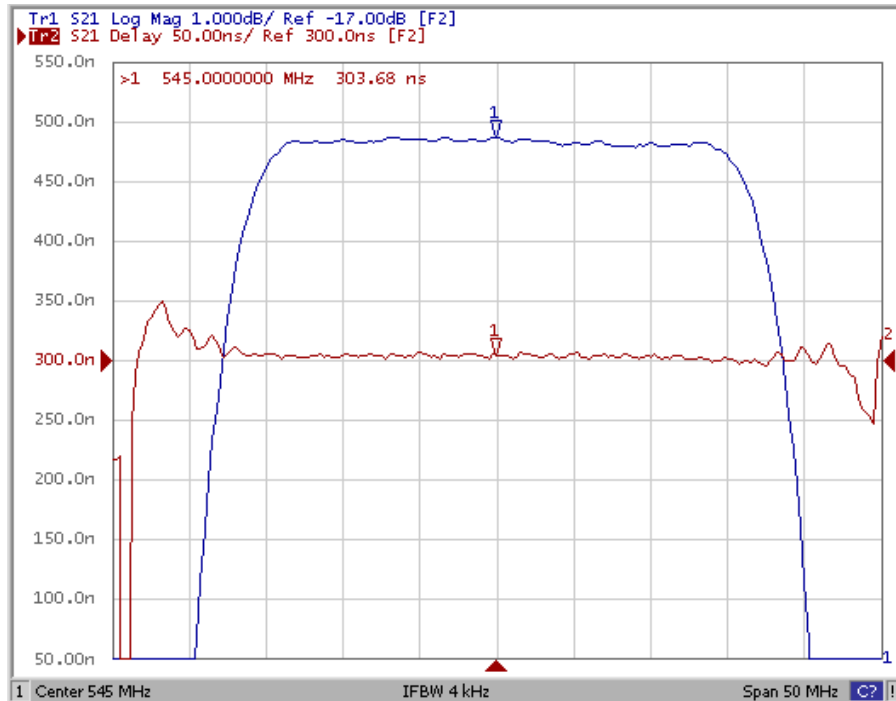
2. S21 Response: (span 1.5GHz)



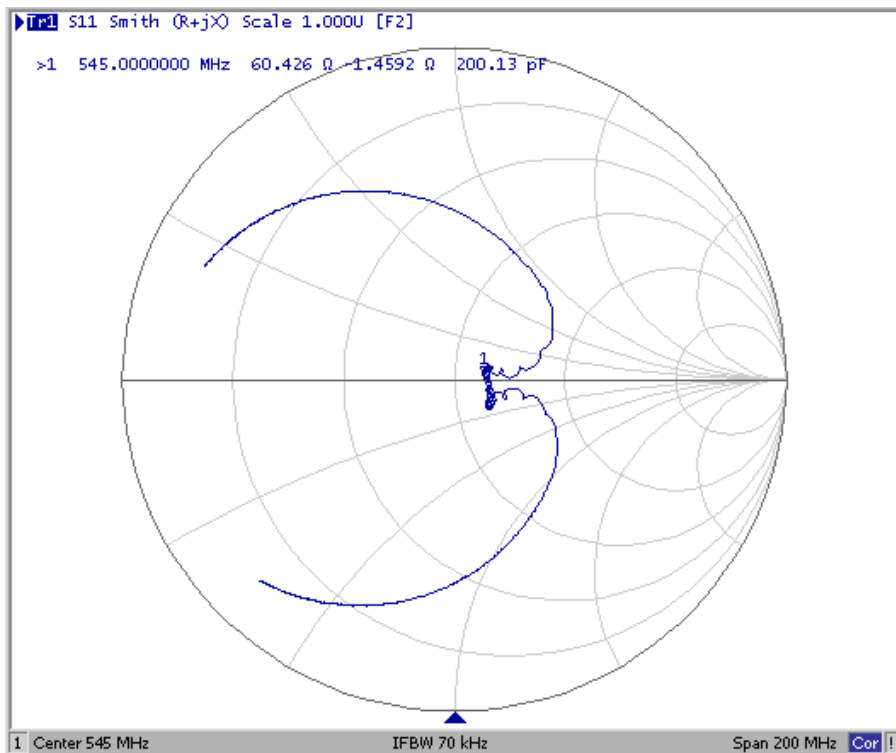
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3. Passband of Response: (span: 50MHz)



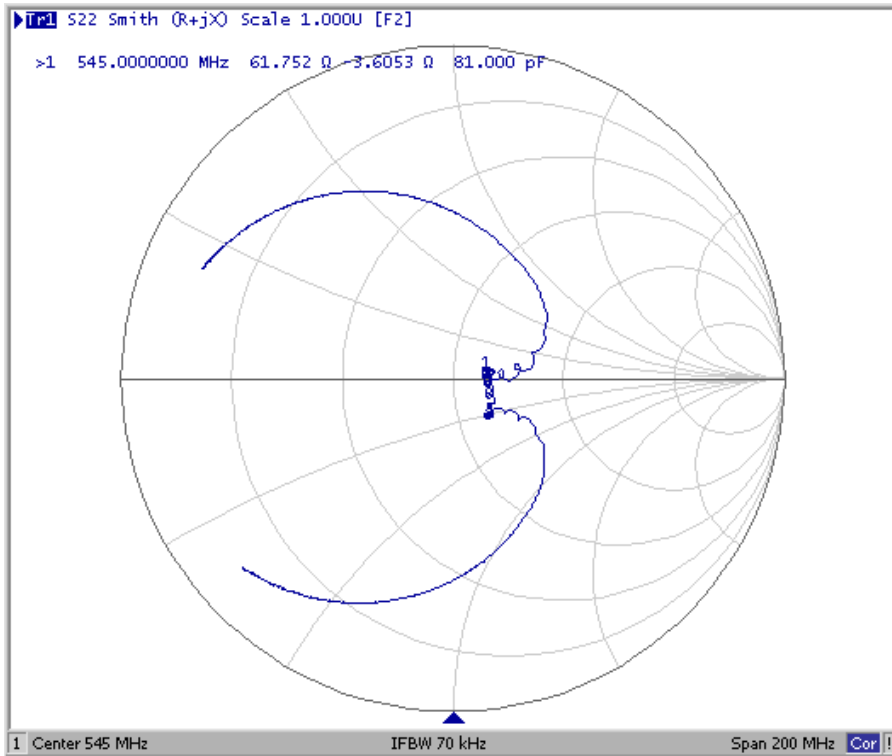
4. S11 Smith Chart: (span 200MHz)



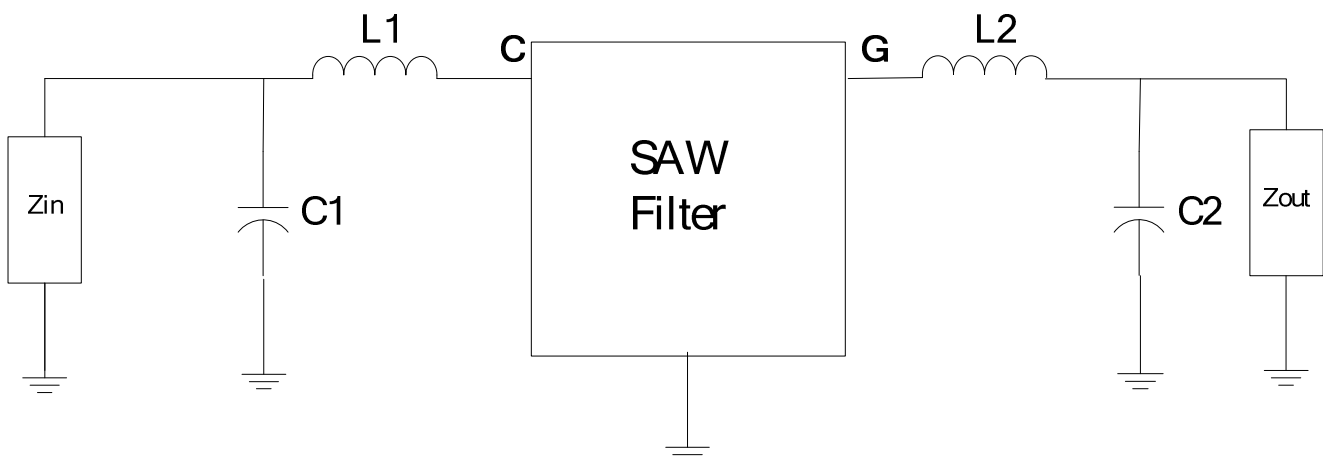
SAW Filter 545.0MHz
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5. S22 Smith Chart: (span 200MHz)



D. TEST CIRCUIT:

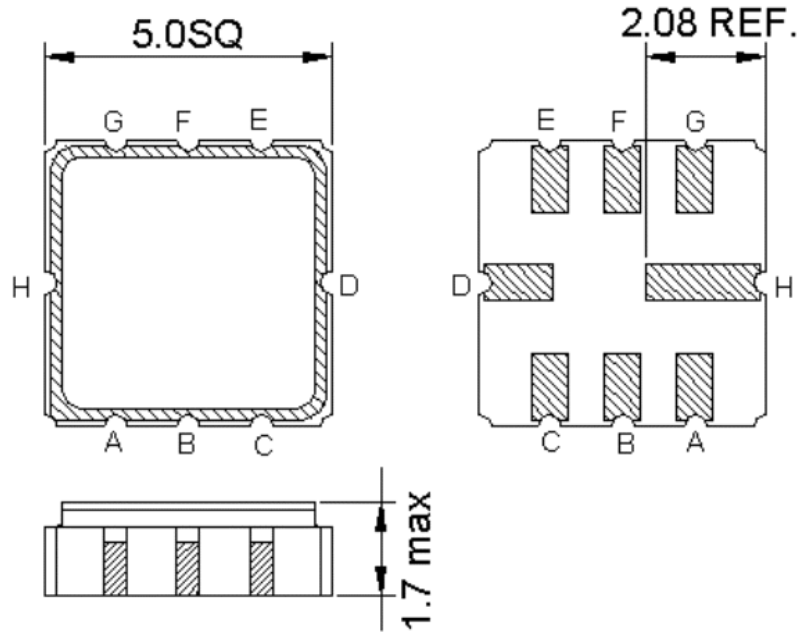


Z_{IN} and Z_{OUT} are 50Ω
 $L1 = 12\text{nH}$, $C1 = 10\text{pF}$, $L2 = 10\text{nH}$, $C2 = 10\text{pF}$

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E. OUTLINE DRAWING:



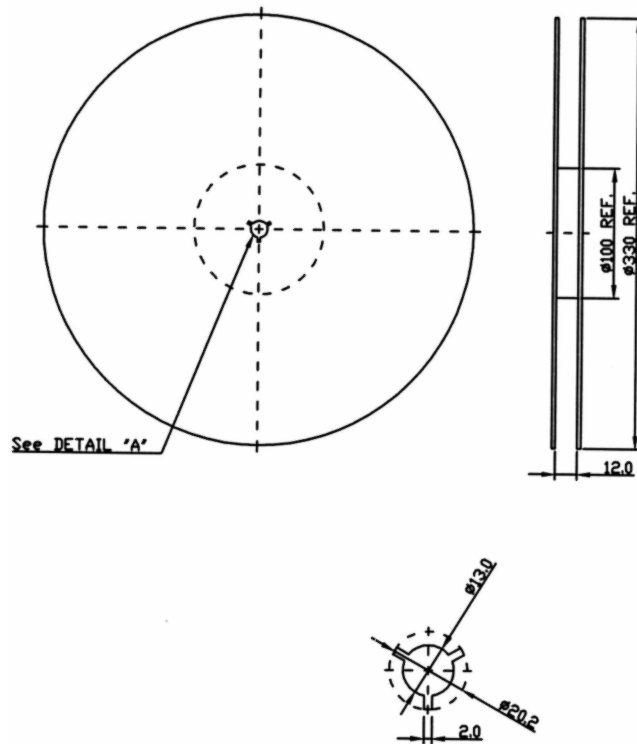
- C: RF input
 - G: RF output
 - H, D: Case Ground
 - A, B, E, F: Ground
- Unit: mm

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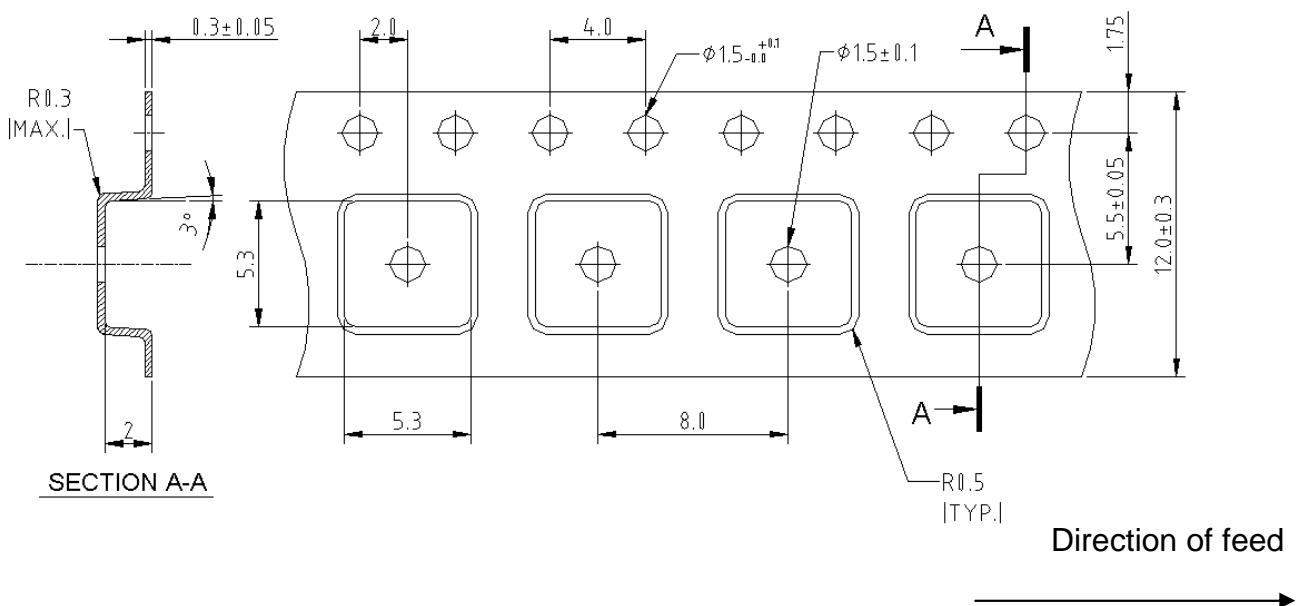
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F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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G. RECOMMENDED REFLOW PROFILE:

