

**SAW Filter 75.0MHz**  
**Part No: MP05074**

**Model: TB1074A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

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

**B. CHARACTERISTICS:**

Ambient Temperature: 25°C

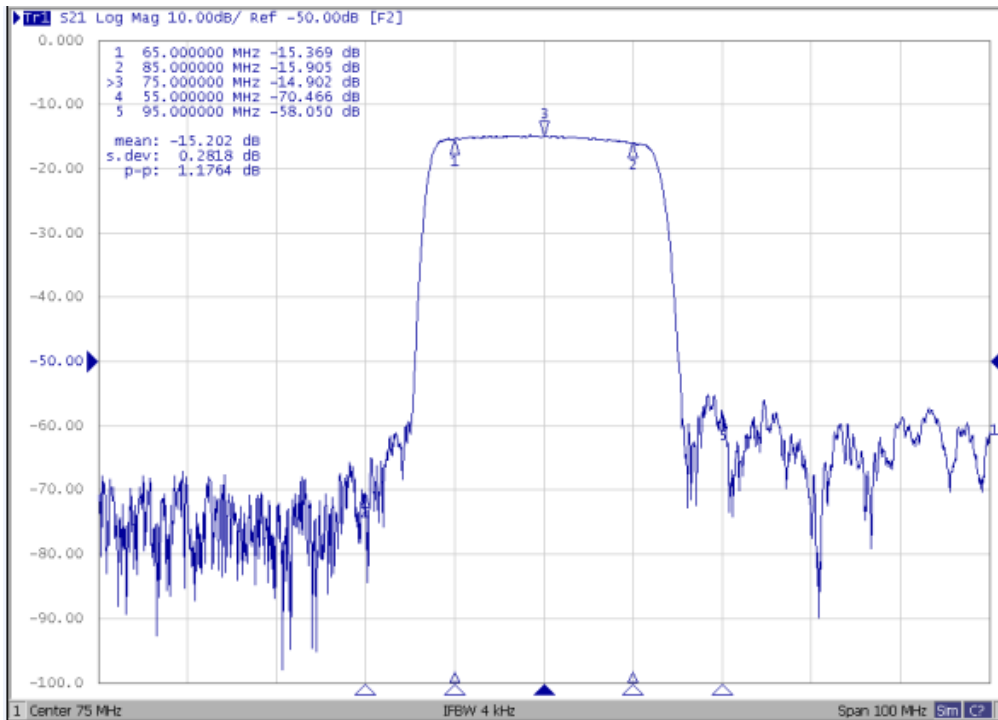
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	75.0	-	-
Minimum Insertion loss IL 64MHz ~ 86MHz dB	-	14.8	16.0	-
Passband Ripple 64MHz ~ 86MHz dB	-	1.1	1.5	-
Attenuation				
10MHz ~ 55MHz dB	40	45	-	-
95MHz ~ 200MHz dB	38	43	-	-
Substrate Material	YZ-LiNbO3			-
Temp Coefficient ppm/K	-	-94	-	-
Matching: <ol style="list-style-type: none"> <li>1. The input of the filter will be matched to 50ohm</li> <li>2. The output of the filter will be matched to 50ohm</li> </ol>				

**SAW Filter 75.0MHz**  
**Part No: MP05074**

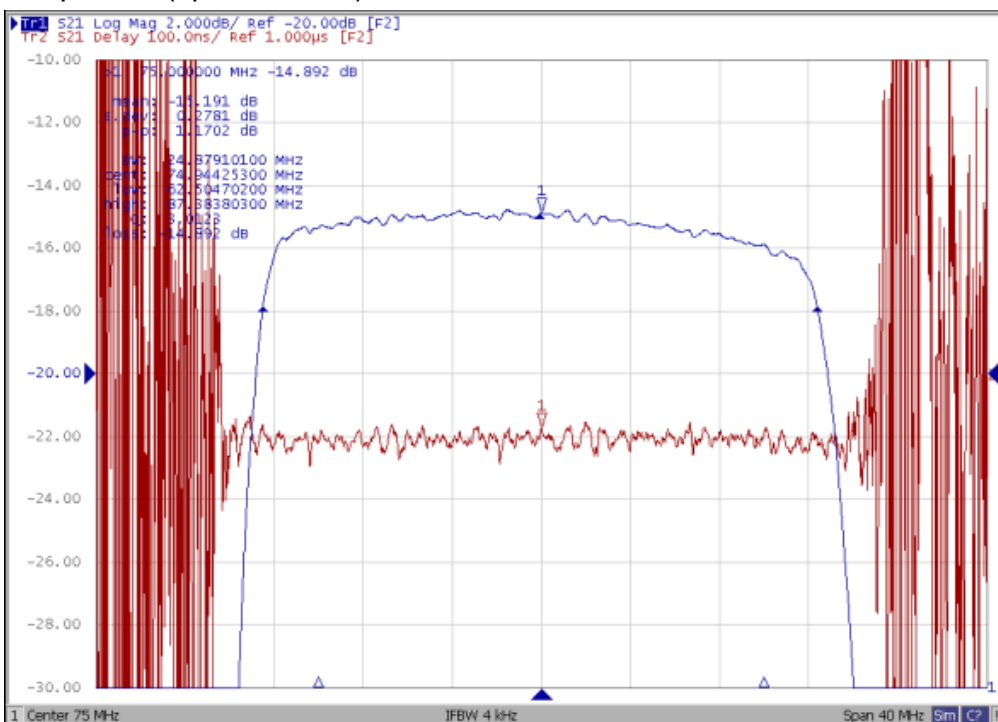
**Model: TB1074A**  
**Rev No: 1**

**C. FREQUENCY CHARACTERISTICS:**

1. S21 Response: (span 50MHz)



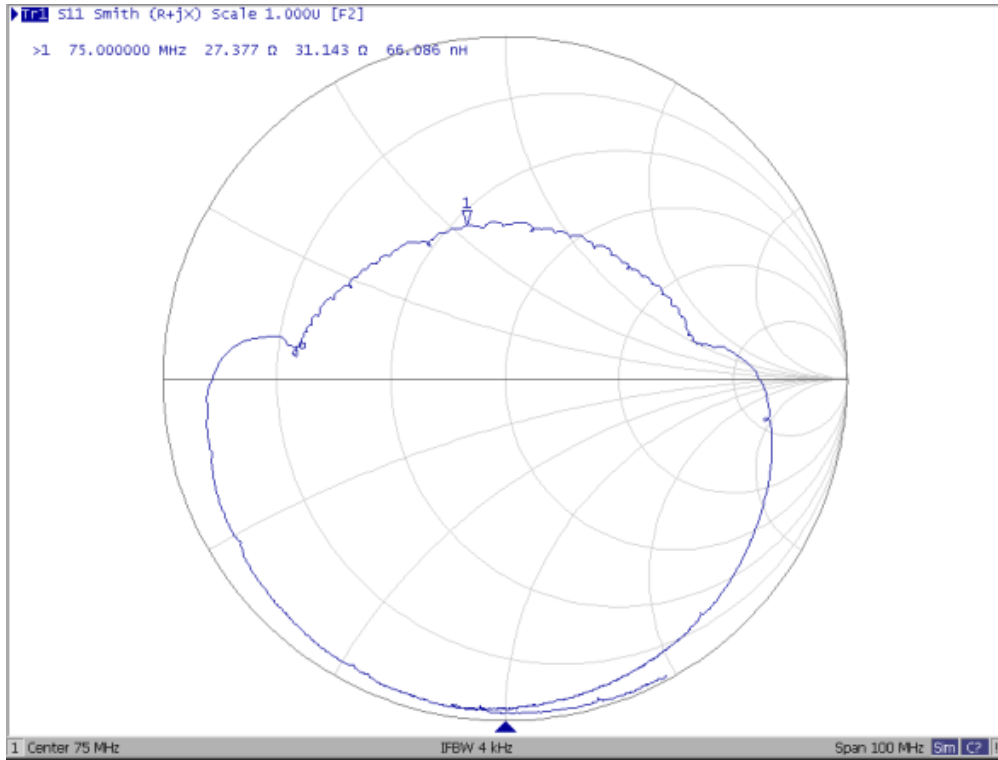
2. S21 Response: (span 10MHz)



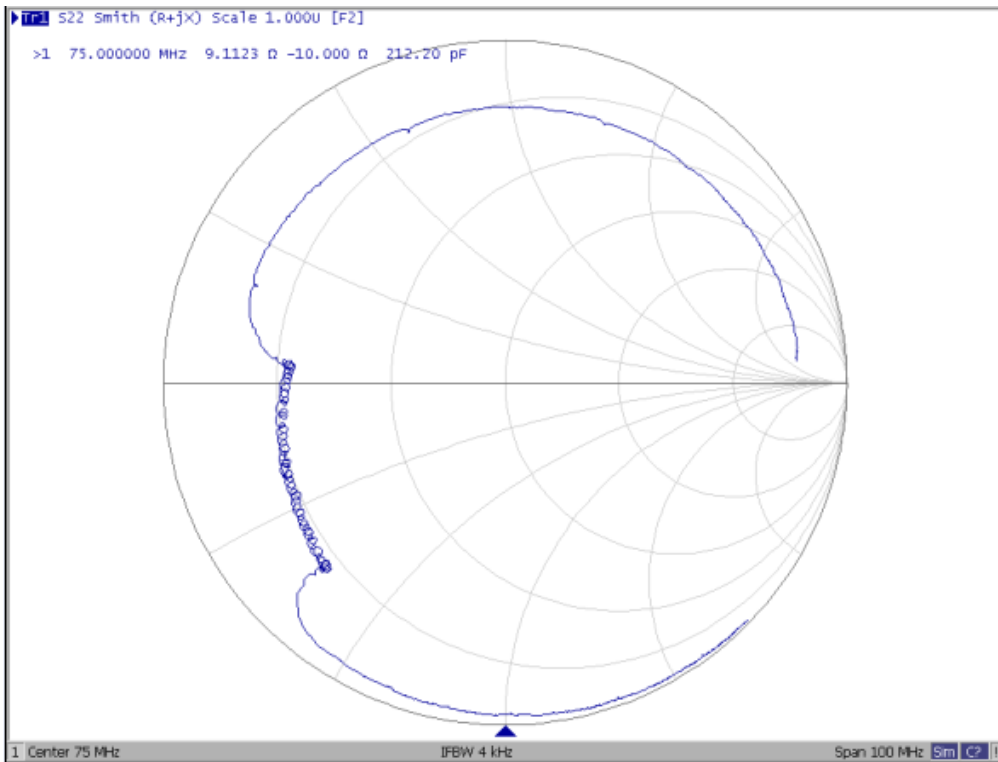
**SAW Filter 75.0MHz**  
**Part No: MP05074**

**Model: TB1074A**  
**Rev No: 1**

3. S11 Smith-Chart: (span 100MHz)



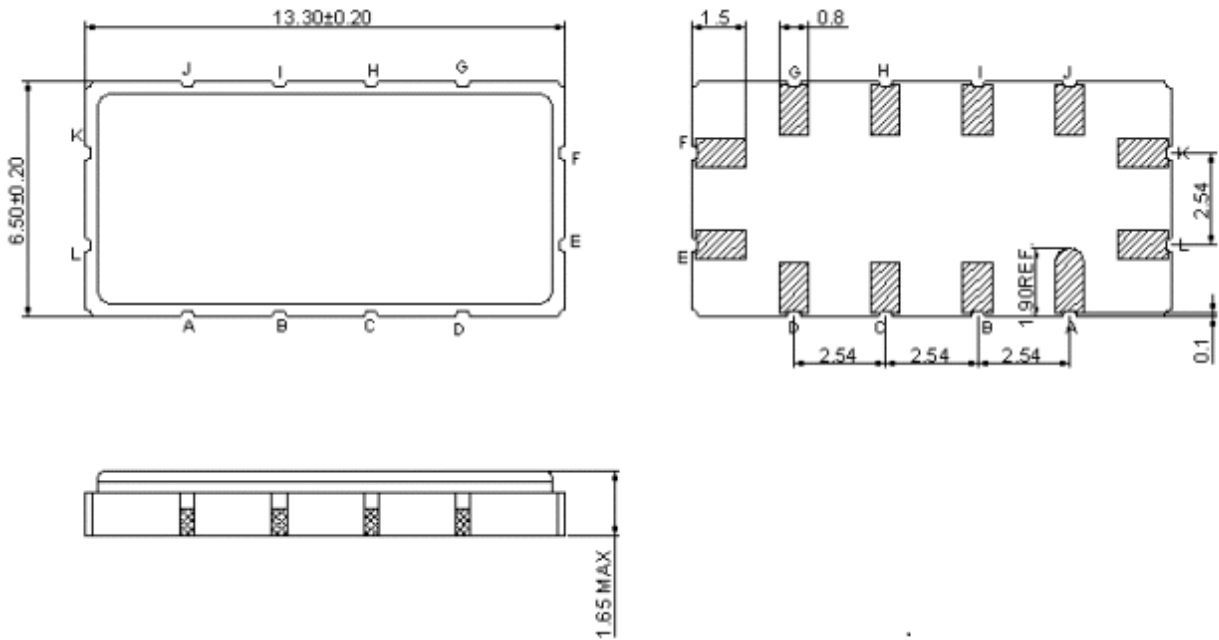
4. S22 Smith-Chart: (span 100MHz)



**SAW Filter 75.0MHz**  
**Part No: MP05074**

**Model: TB1074A**  
**Rev No: 1**

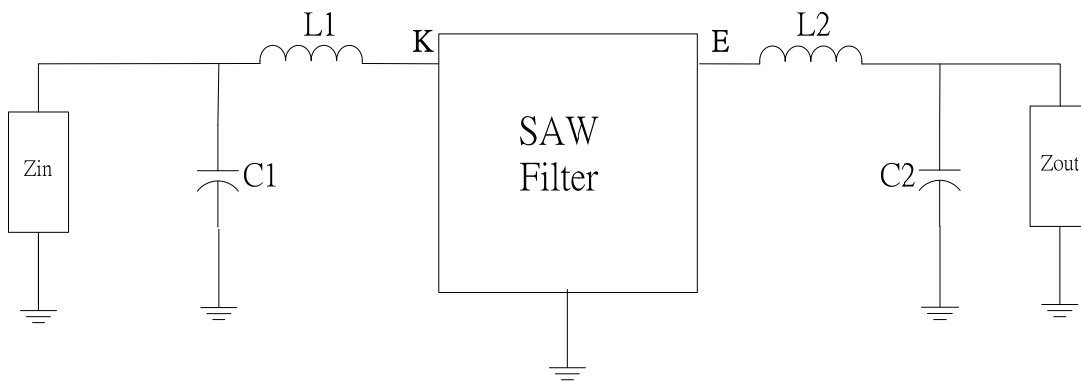
**D. OUTLINE DRAWING:**



K: RF input  
 E: RF output  
 A, B, C, D, G, H, I, L, F, J: To be Ground  
 Unit: mm

**E. MEASUREMENT CIRCUIT:**

Single In / Output: ( $Z_{IN} = Z_{OUT} = 50\Omega$ )

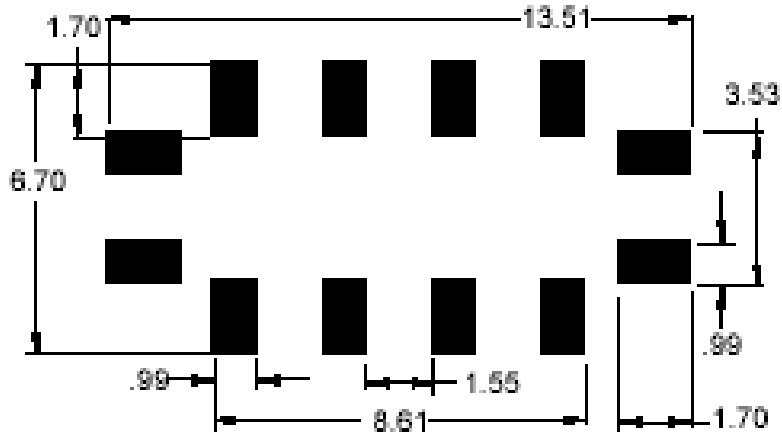


L1 = 180nH, L2 = 120nH, C1 = 18pF, C2 = 27pF

**SAW Filter 75.0MHz**  
**Part No: MP05074**

**Model: TB1074A**  
**Rev No: 1**

**F. PCB FOOTPRINT:**

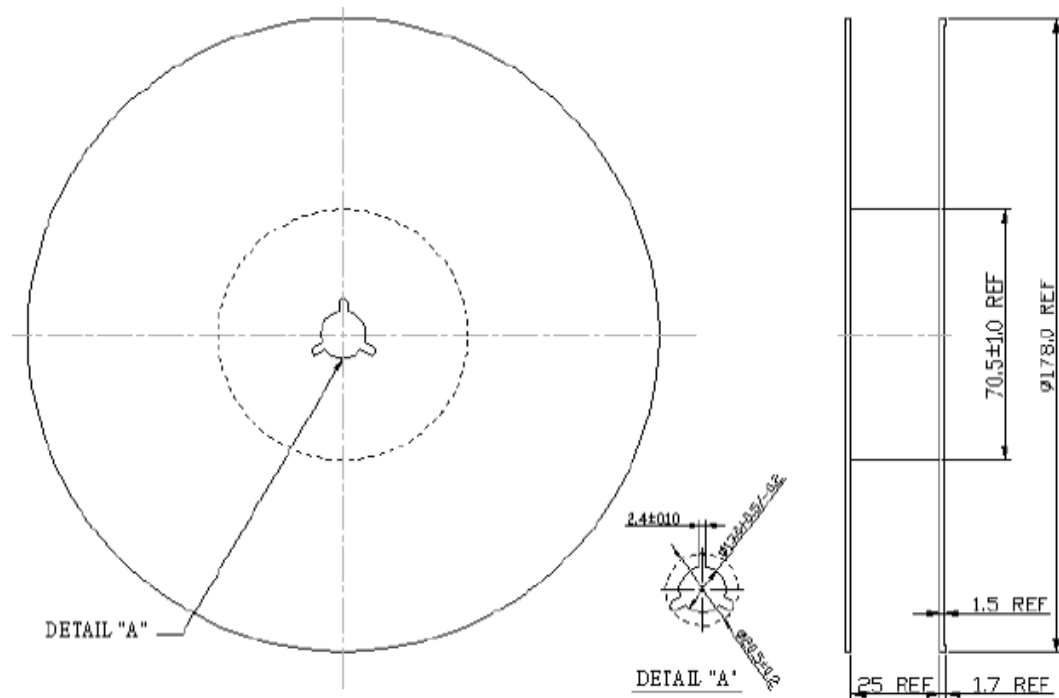


**SAW Filter 75.0MHz**  
**Part No: MP05074**

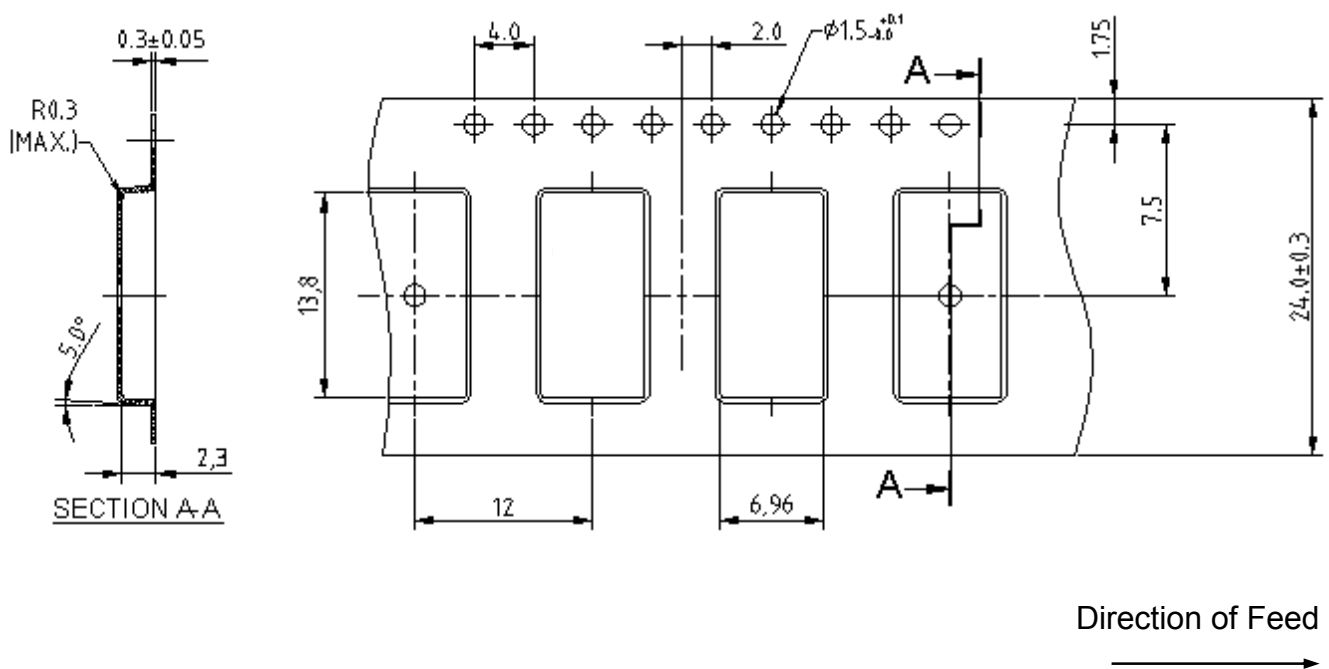
**Model: TB1074A**  
**Rev No: 1**

**G. PACKING:**

1. Reel Dimension (Reel Count: 7" = 500typ; 13" = 1000 typ)



2. Tape Dimension



**SAW Filter 75.0MHz**  
**Part No: MP05074**

**Model: TB1074A**  
**Rev No: 1**

**H. RECOMMENDED REFLOW PROFILE:**

