

**SAW Filter 874.0MHz**  
**Part No: MP03909**

**Model: TB0805A**  
**Rev No: 2**

**A. MAXIMUM RATING:**

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

**B. CHARACTERISTICS:**

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	874	-
Insertion Loss IL	dB	-	23	26.5
1dB Bandwidth	MHz		15.6	-
3dB Bandwidth	MHz		16.1	
40dB Bandwidth	MHz		19.5	21.1
Amplitude Ripple Fc ± 7.0MHz	dB	-	0.8	1.2
Group-Delay Ripple Fc ± 7.0MHz	nsec	-	85	120
Absolute Delay	usec	-	0.9	
Temperature Coefficient of frequency	ppm/°C <sup>2</sup>		-0.036	
Package	mm <sup>3</sup>		13.3 x 6.5	

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**C. FREQUENCY CHARACTERISTICS:**

1. S21 Response: (span: 80MHz)

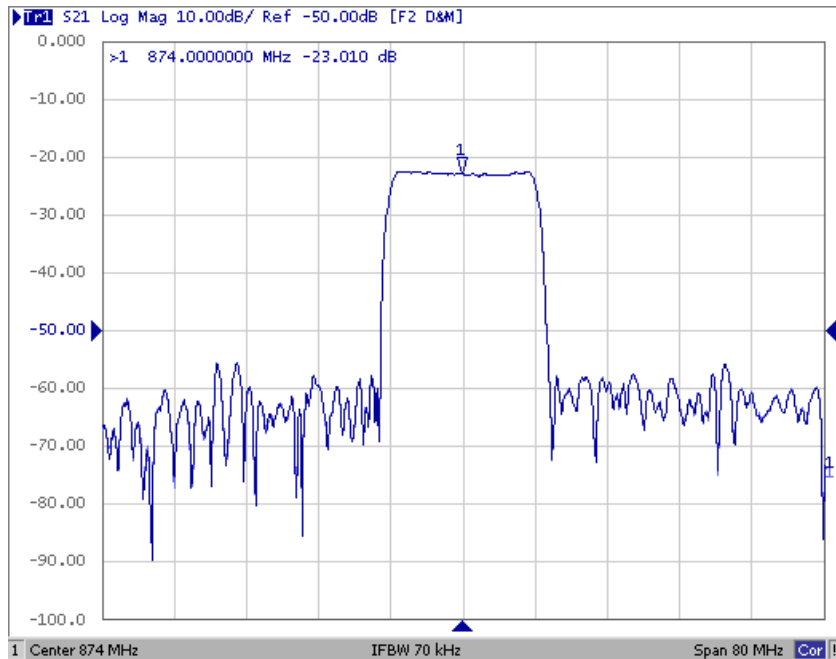


Fig. 1. Horizontal: 8MHz/Div, Vertical: 10dB/Div

2. Group-Delay Ripple: (span: 20MHz)

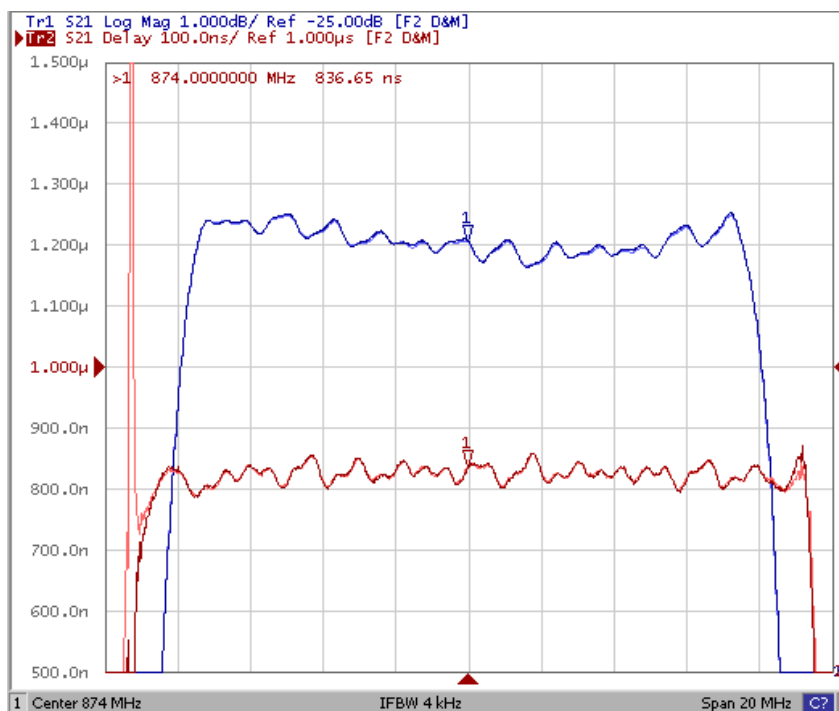
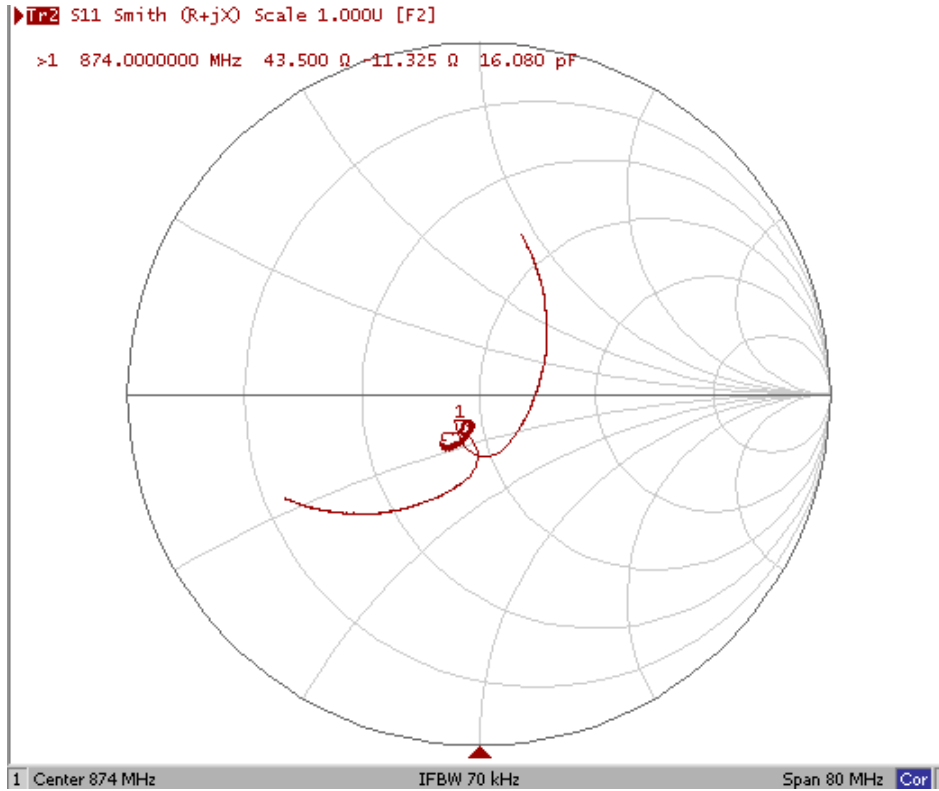


Fig. 2. Horizontal: 2MHz/Div, Vertical: 100nec/Div

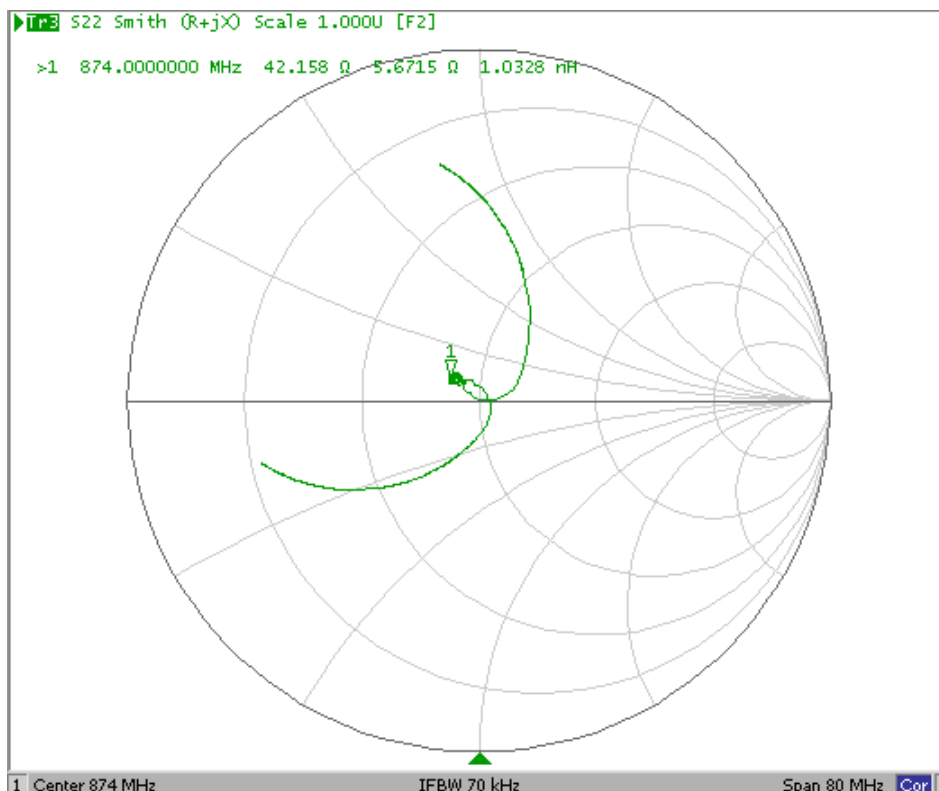
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3. S11 Smith Chart: (span: 80MHz)



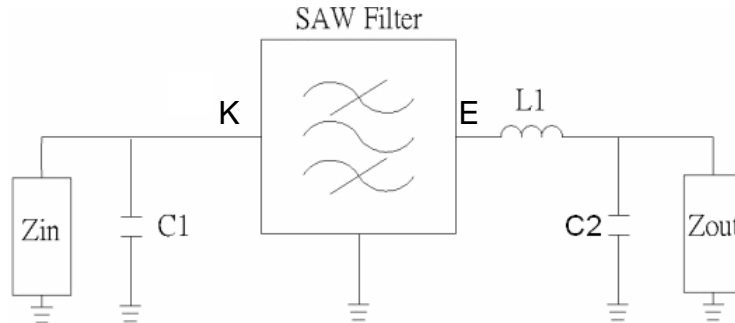
4. S22 Smith Chart (span: 80MHz)



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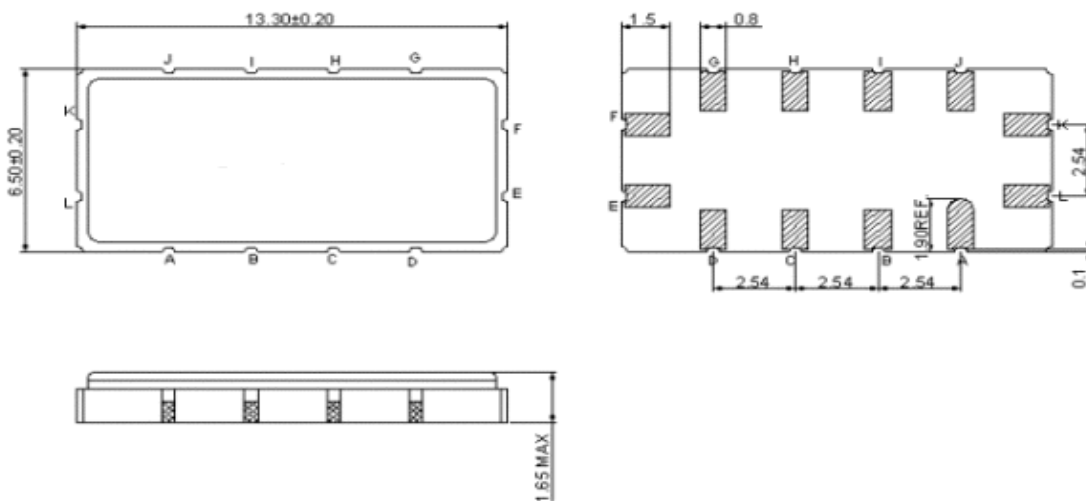
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**D. MEASUREMENT CIRCUIT:**



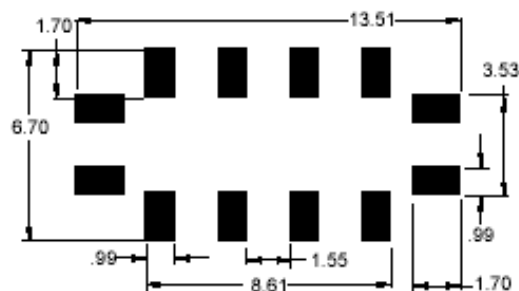
$Z_{IN}$  and  $Z_{OUT}$  are  $50\Omega$   $C1 = 10pF$ ,  $L1 = 1.4nH$ ,  $C2 = 12pF$

**E. OUTLINE DRAWING:**



K: RF input  
 E: RF output  
 A, B, C, D, G, H, I, L, F, J: To be Ground  
 Unit: mm (week01, 02, 03...52 =>A, B, C...z)

**F. PCB FOOTPRINT:**

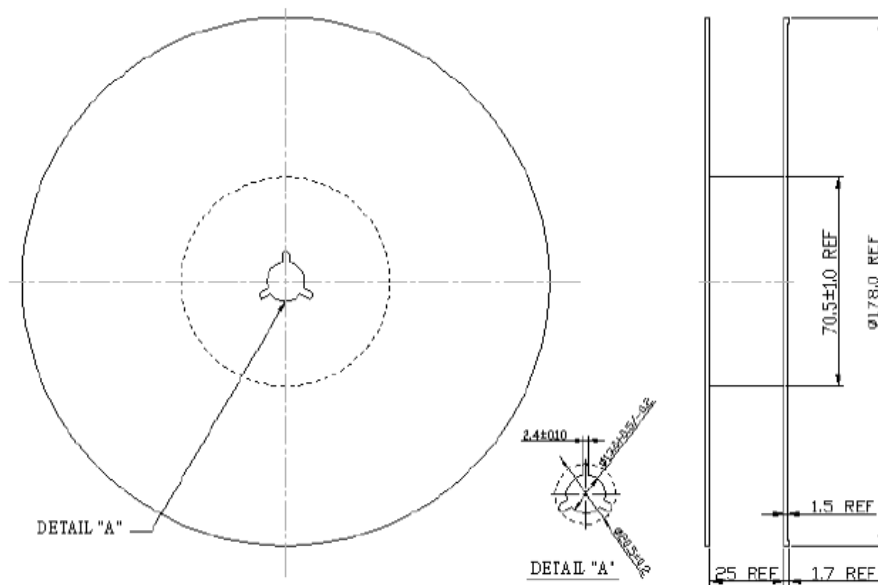


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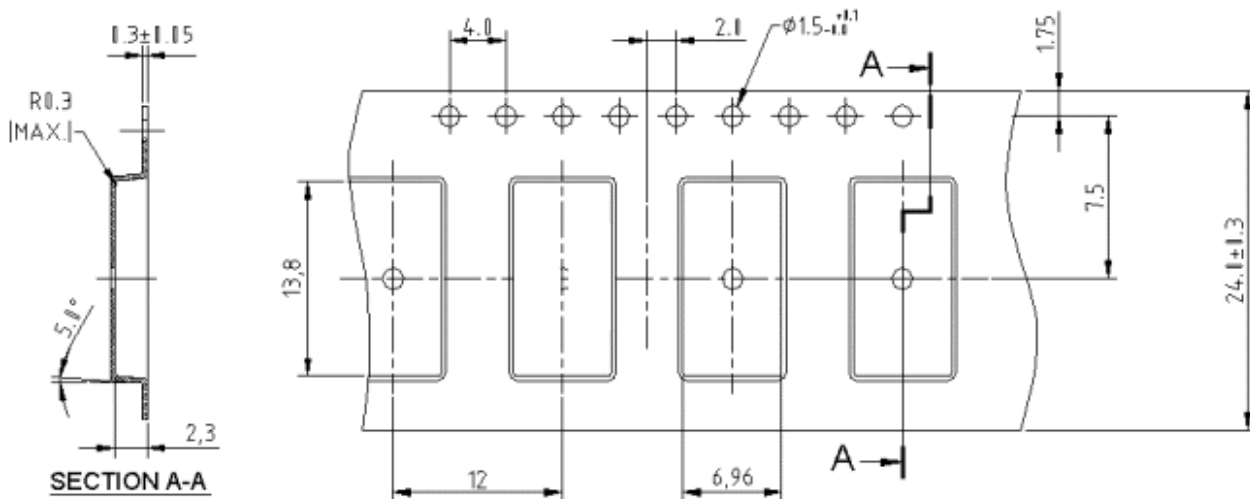
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**G. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**



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**H. RECOMMENDED REFLOW PROFILE:**

