

**SAW Filter 140MHz**  
**Part No: MP03218**

**Model: TB0810A**  
**Rev No: 2**

**A. MAXIMUM RATING:**

1. Operating Temperature: -40°C ~ +85°C
2. Storage Temperature: -40°C ~ +105°C
3. Input power: 10dBm

**B. CHARACTERISTICS:**

Ambient Temperature: 25°C

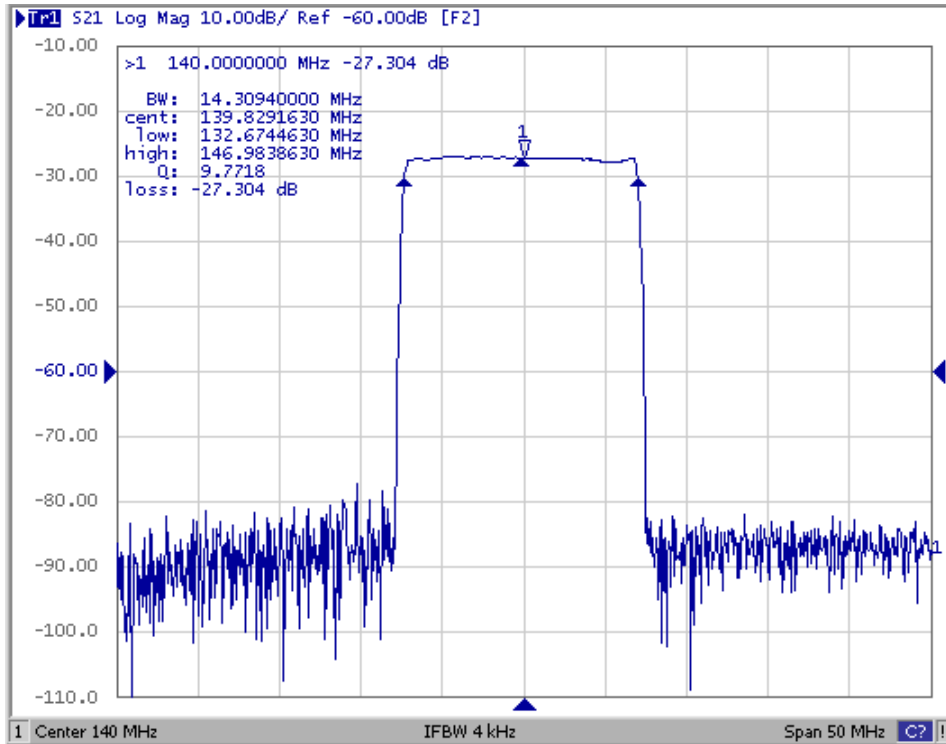
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	139.92	140.0	140.08	-
Minimum Insertion loss IL dB	-	27.2	29.5	-
1dB Bandwidth MHz	14.1	14.12	-	-
3dB Bandwidth MHz	14.2	14.29	-	-
40dB Bandwidth MHz	-	15.20	15.3	-
50dB Bandwidth MHz	-	15.32	17.5	-
Passband Ripple dB	-	0.8	1.5	-
Group Delay Variation (Fc ± 7MHz) nsec		50	80	
Absolute Delay usec		3.70	3.75	
Ultimate Rejection dB	50	52		
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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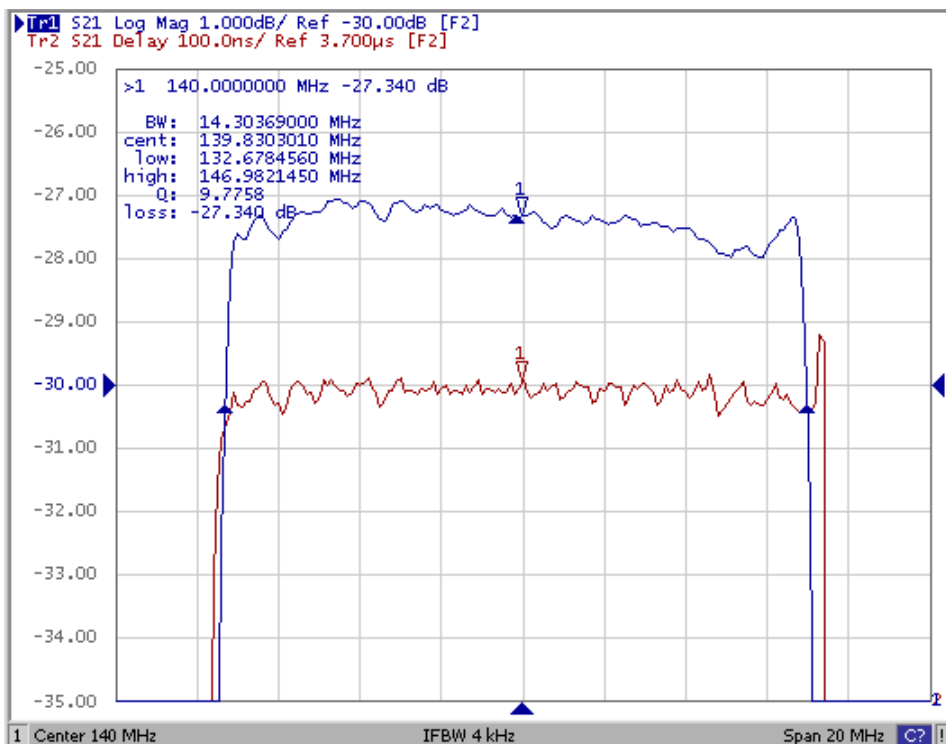
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**C. FREQUENCY CHARACTERISTICS:**

1. S21 Response: (span: 50MHz)



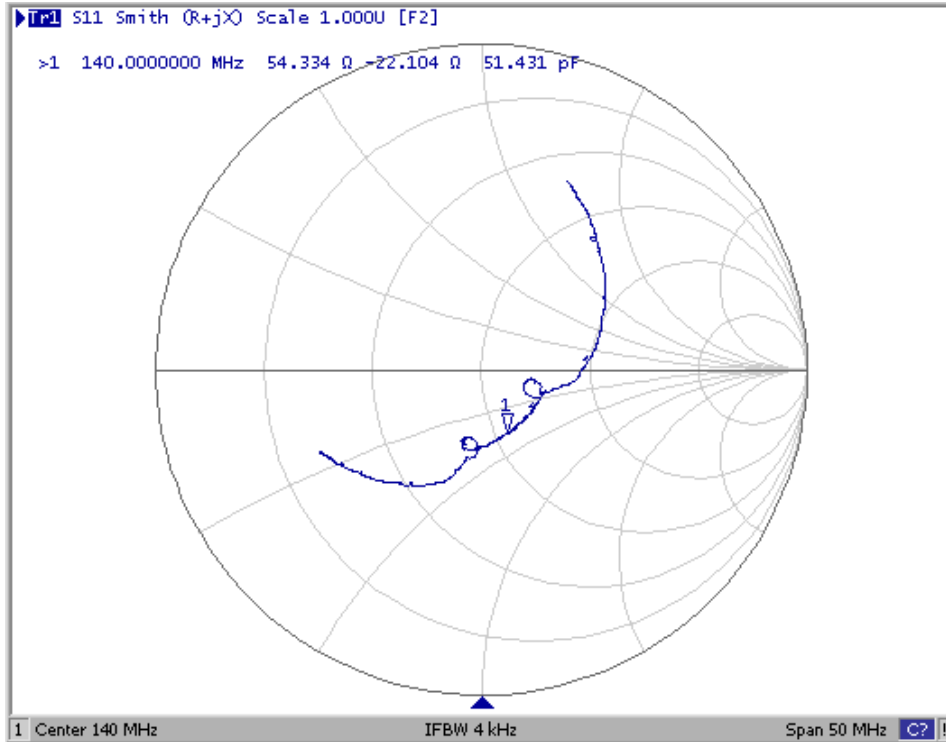
2. Group-Delay Ripple: (span: 20MHz)



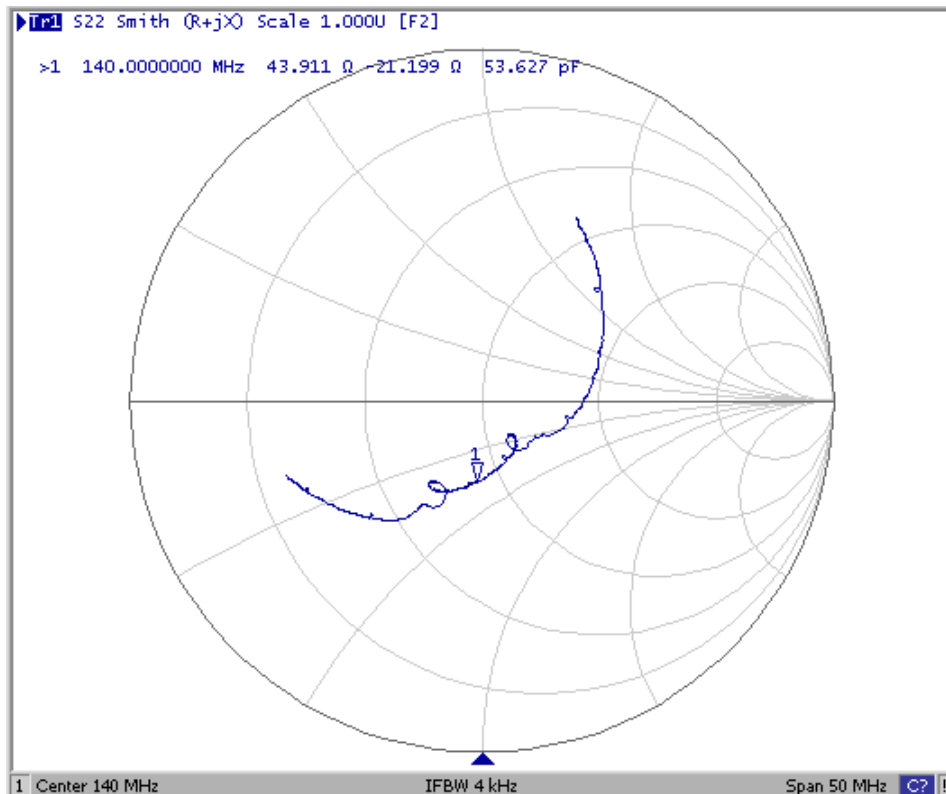
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3. S11 Smith Chart: (span: 50MHz)



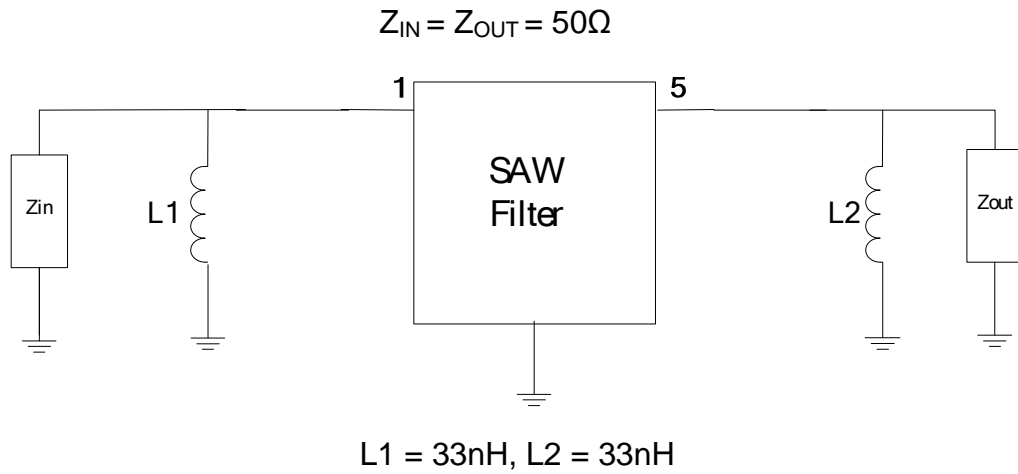
4. S22 Smith Chart (span: 50MHz)



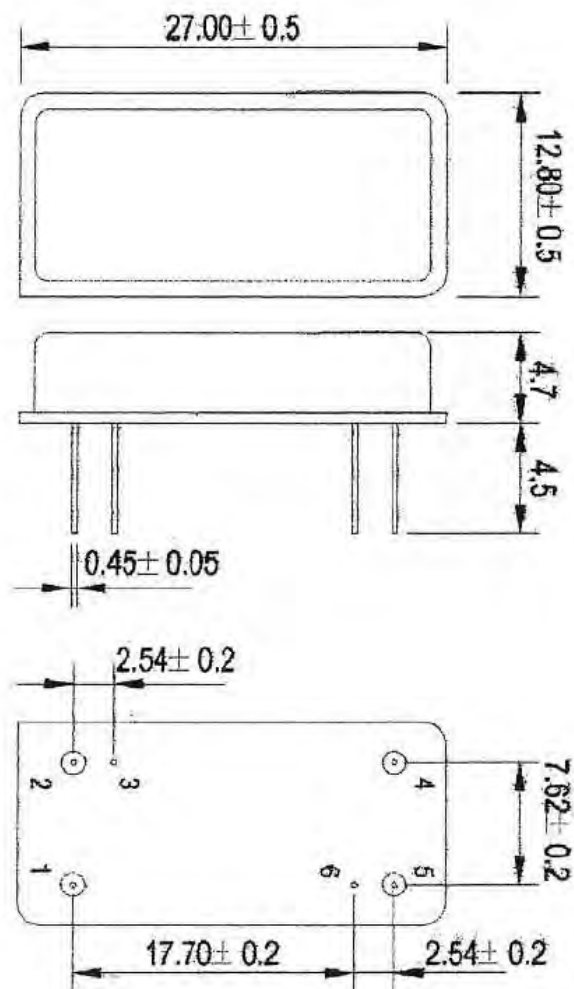
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**D. MEASUREMENT CIRCUIT:**



**E. OUTLINE DRAWING:**



1: RF input, 5: RF output, 3, 6: Case Ground, 2, 4: Ground, Unit: mm