

SAW Filter 70.0MHz
Part No: MP05682

Model: TB0940A
Rev No: 2

A. MAXIMUM RATING:

1. Operating Temperature: 0°C ~ +70°C
2. Storage Temperature: -40°C ~ +85°C
3. Input power: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25°C

Characteristics	Min.	Typ.	Max.	Note
Center frequency Fc MHz	69.9	70	70.1	-
Minimum Insertion loss IL dB	-	19.2	22.0	-
1dB Bandwidth MHz	1.3	1.35	-	-
40dB Bandwidth MHz	-	1.87	1.90	-
45dB Bandwidth MHz	-	1.90	1.93	-
Passband Ripple (Fc ± 0.5MHz) dB	-	0.5	1.0	-
Ultimate Rejection dB	50	54		
Temp Coefficient ppm/K	-	-0.032	-	-

Matching:

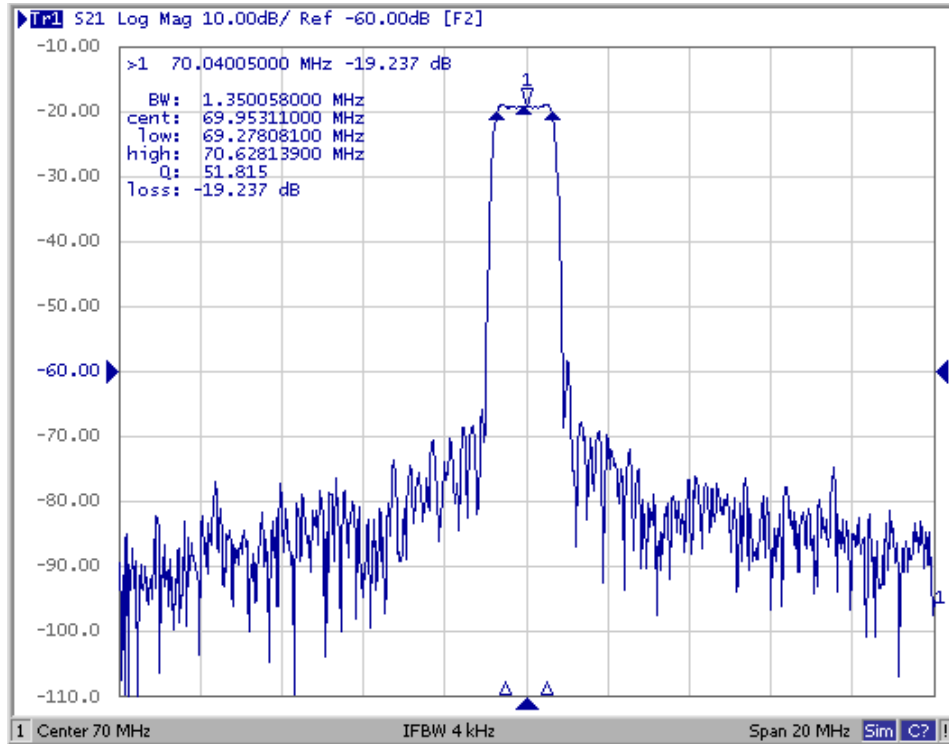
1. The input of the filter will be matched to 50 ohm
2. The output of the filter will be matched to 50 ohm

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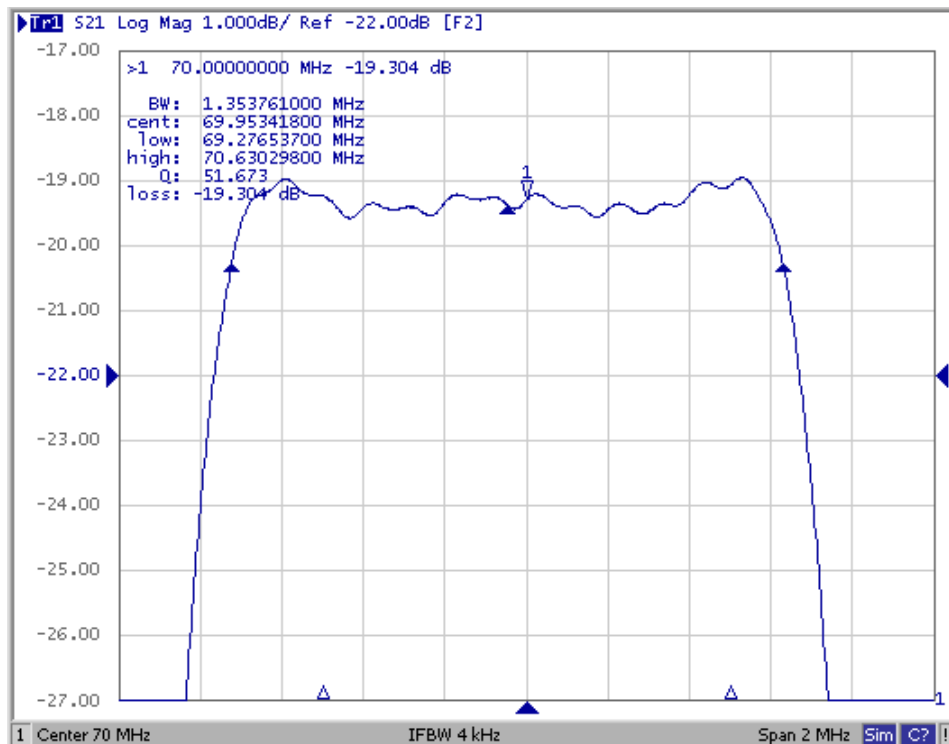
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C. FREQUENCY CHARACTERISTICS:

1. S21 Response: (span: 20MHz)



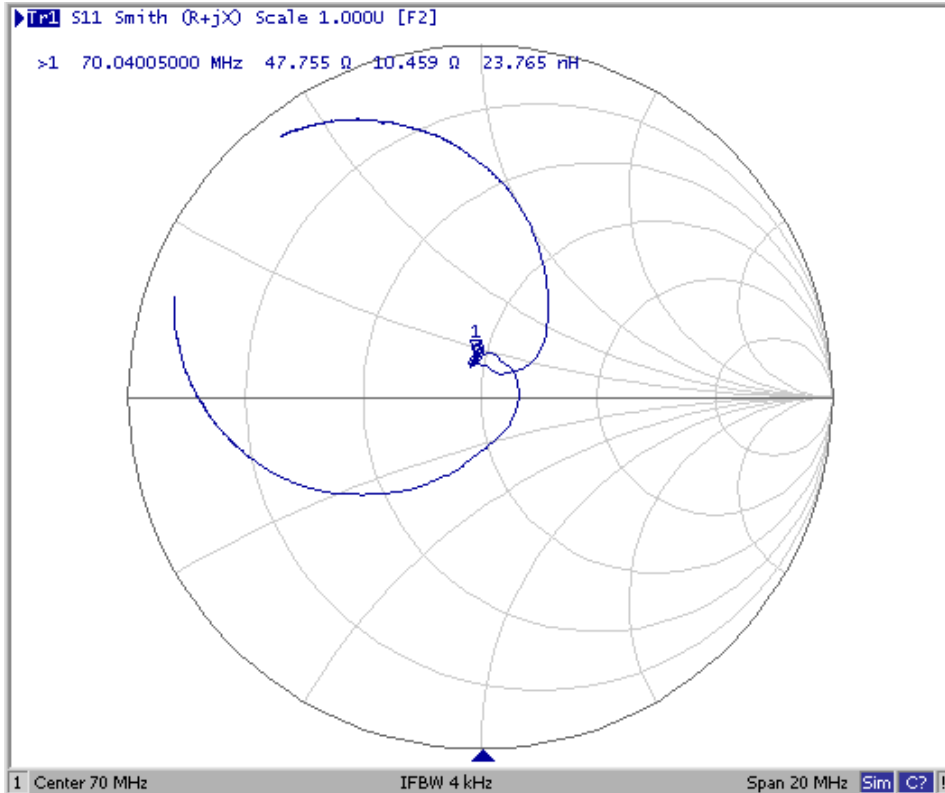
2. Pass-band Response: (span: 2MHz)



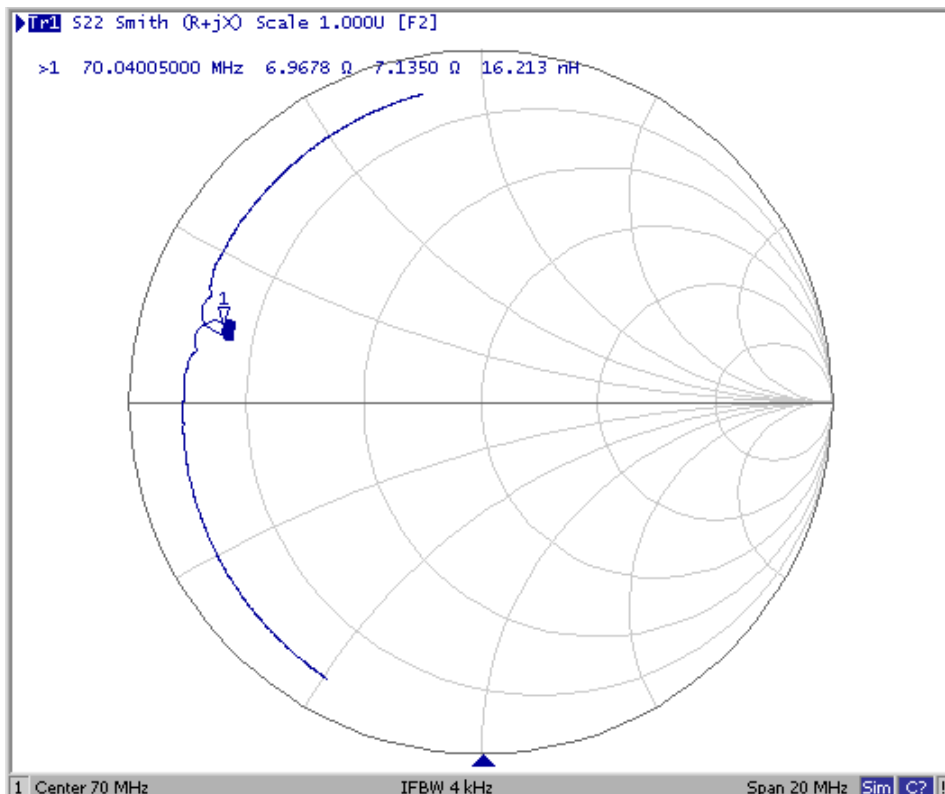
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3. S11 Smith Chart: (span: 20MHz)



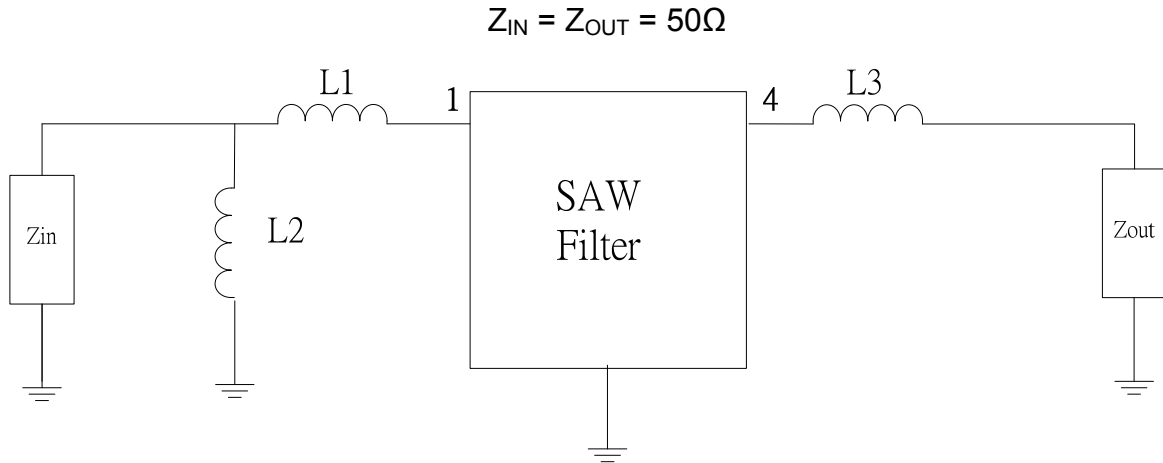
4. S22 Smith Chart (span: 20MHz)



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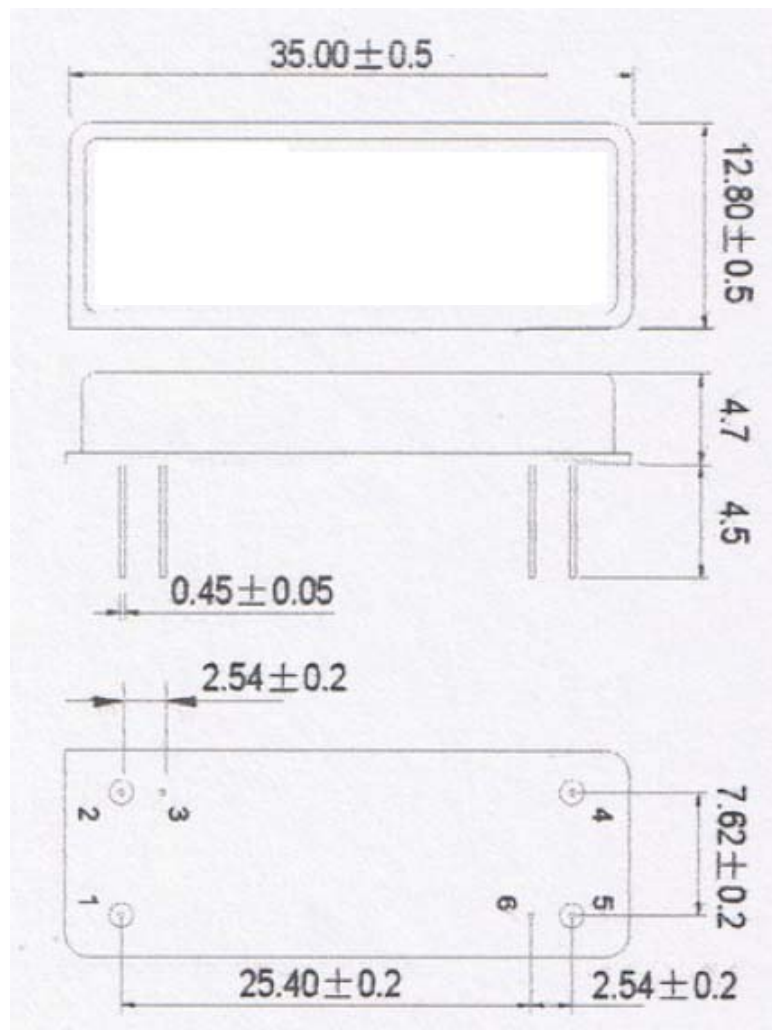
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D. MEASUREMENT CIRCUIT:



$L1 = 150\text{nH}, L2 = 36\text{nH}, L3 = 270\text{nH}$

E. OUTLINE DRAWING:



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

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F. RECOMMENDED REFLOW PROFILE:

