

SAW Filter 53.760MHz

Model: TB0948A

Part No: MP10013

Rev No: 1

A. MAXIMUM RATING:

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

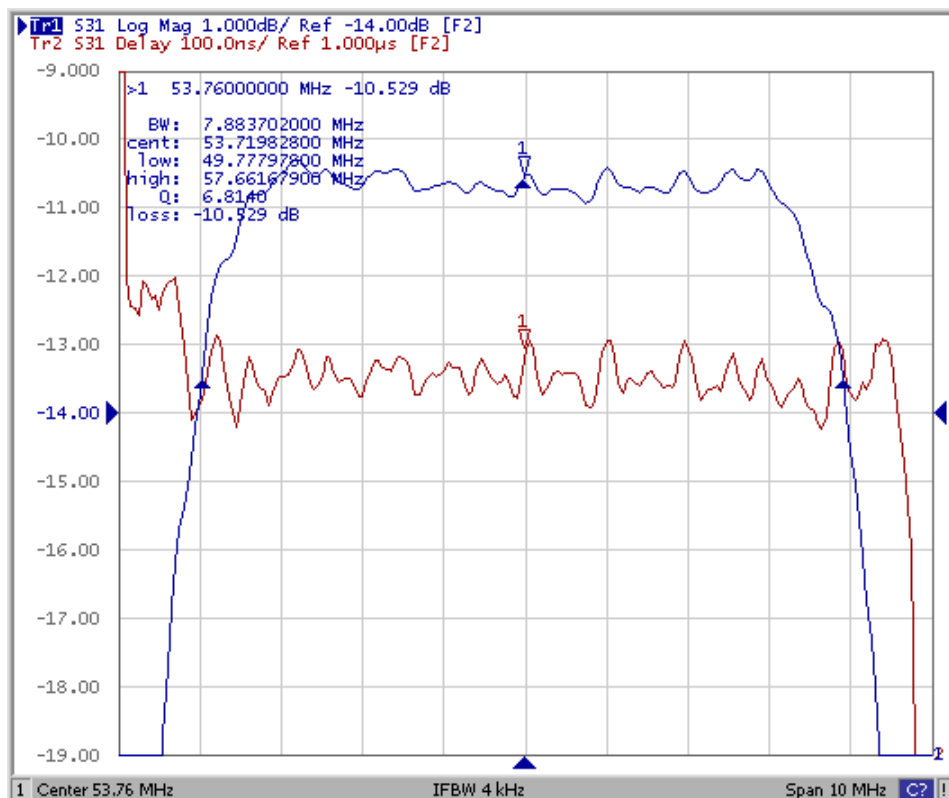
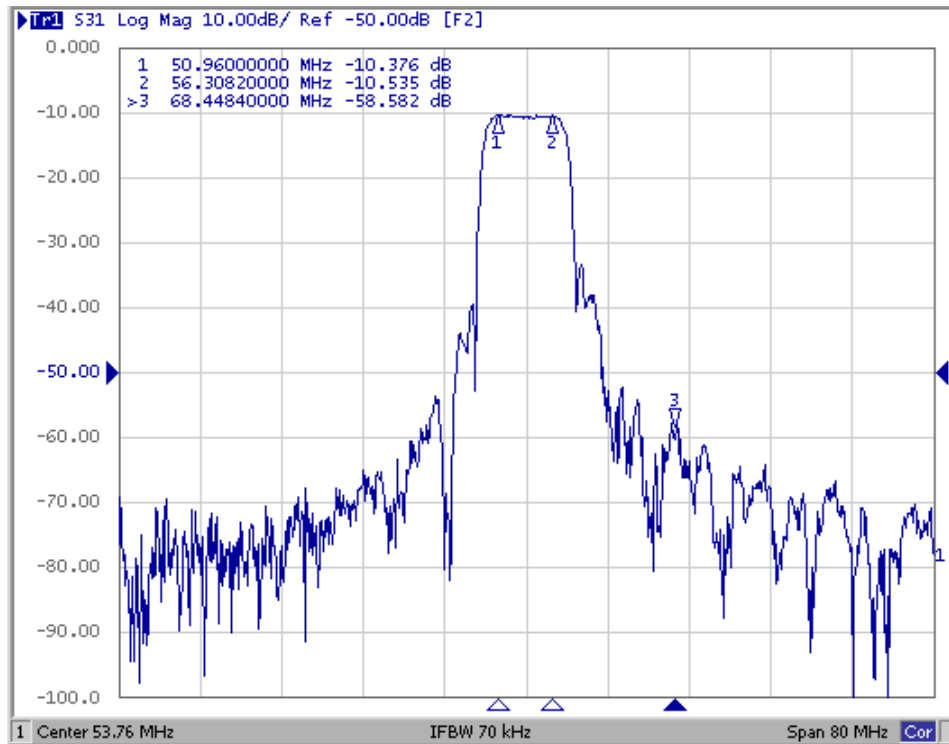
Item	Unit	Min.	Typ.	Max.
Center frequency, Fc	MHz	-	53.76	-
Insertion Loss, IL	dB	-	10.3	11.0
Pass band Ripple Fc ±2.7MHz	dB	-	0.5	1.0
Group Delay Variation Fc ±2.7MHz	nsec		90	120
Phase Linearity within Fc± 2.7MHz	deg		3.5	6.0
Relative attenuation				
Fc -40MHz ~ Fc -12MHz	dB	45	52	-
Fc +12.0MHz ~ Fc+500MHz	dB	45	48	-
Return Loss within Pass band	dB	6	6.5	-
Max input power level	dBm	+10		
Input IP3	dBm	+35	+40	
In/Output impedance	Ohm	50/50		

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C. FREQUENCY CHARACTERISTICS:

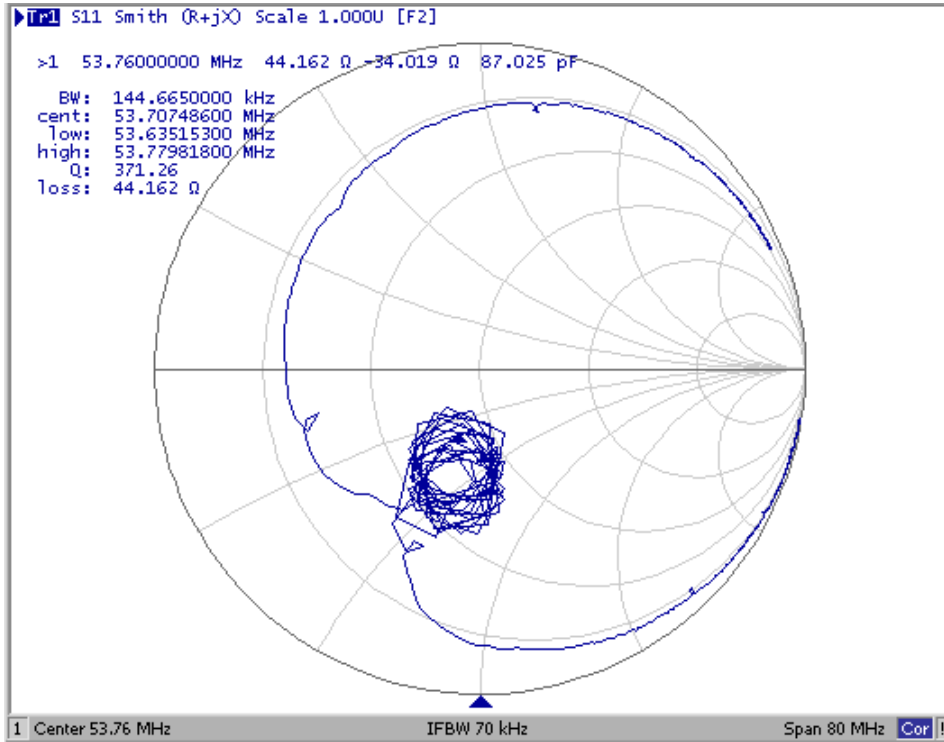
1. S11 Response:



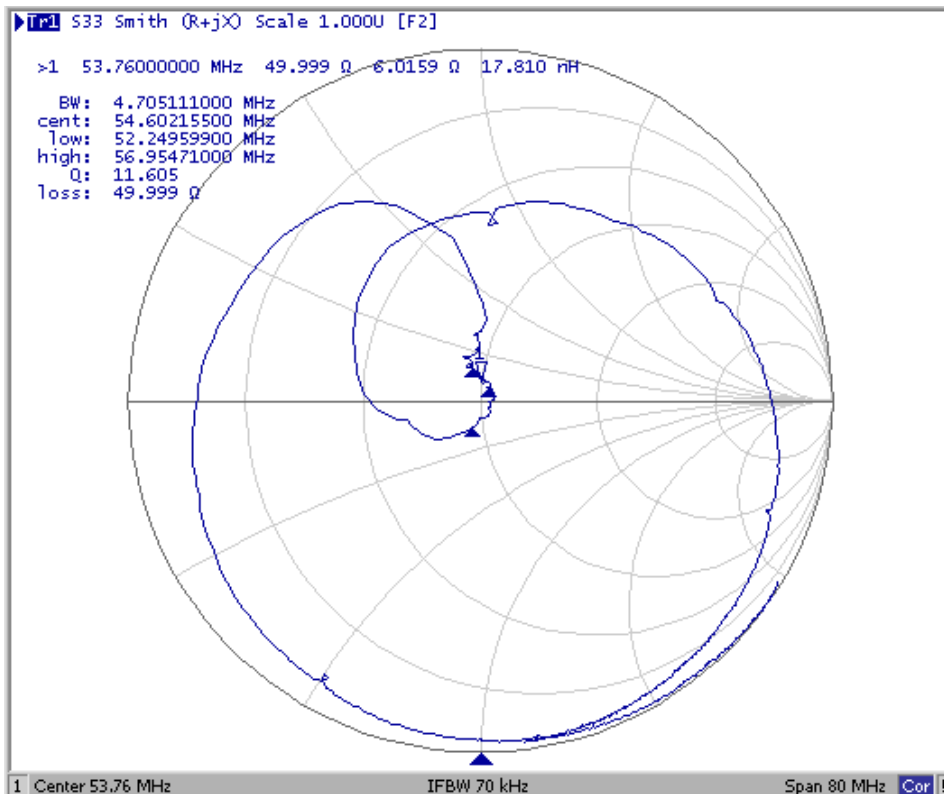
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2. S11 Smith-Chart:



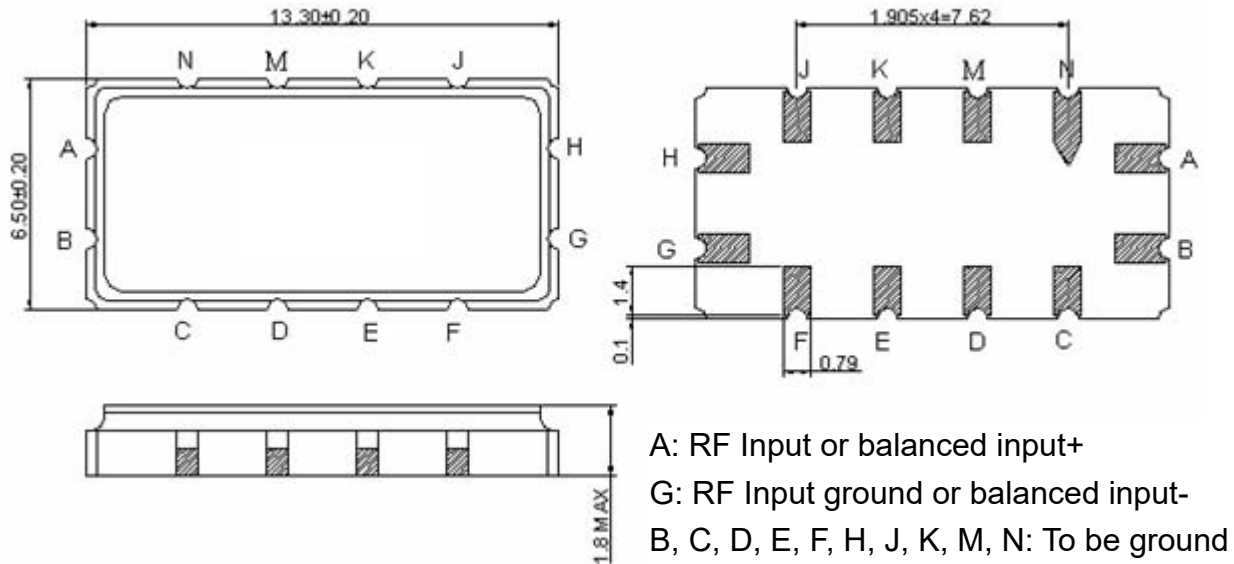
3. S22 Smith-Chart:



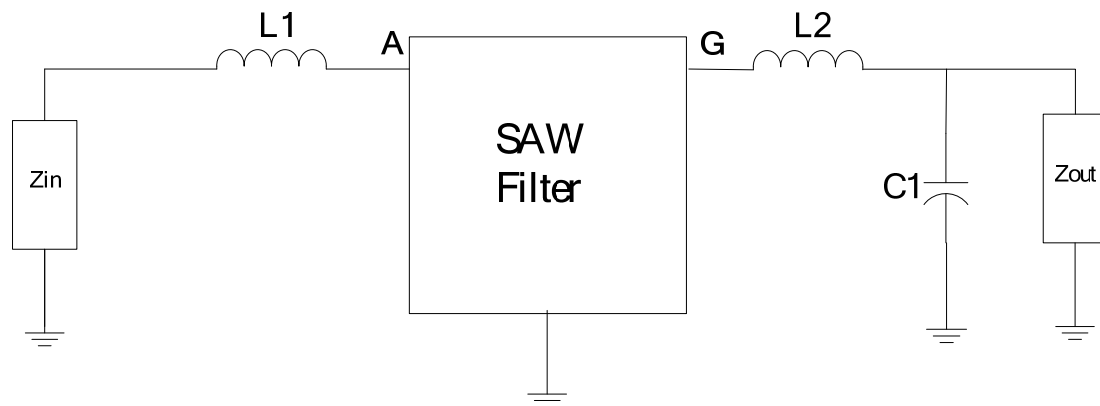
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D. OUTLINE DRAWING:

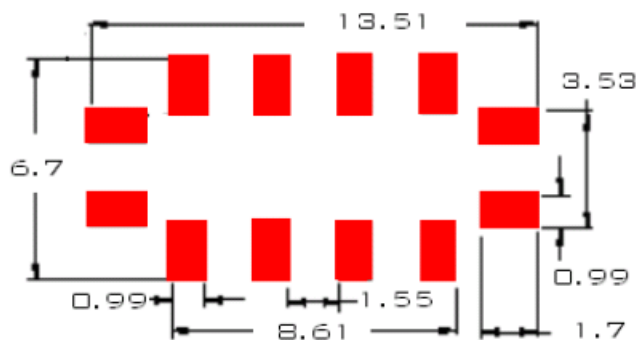


E. MEASUREMENT CIRCUIT:



$L1 = 470\text{nH}$, $L2 = 390\text{nH}$, $C1 = 39\text{pF}$

F. PCB FOOTPRINT:

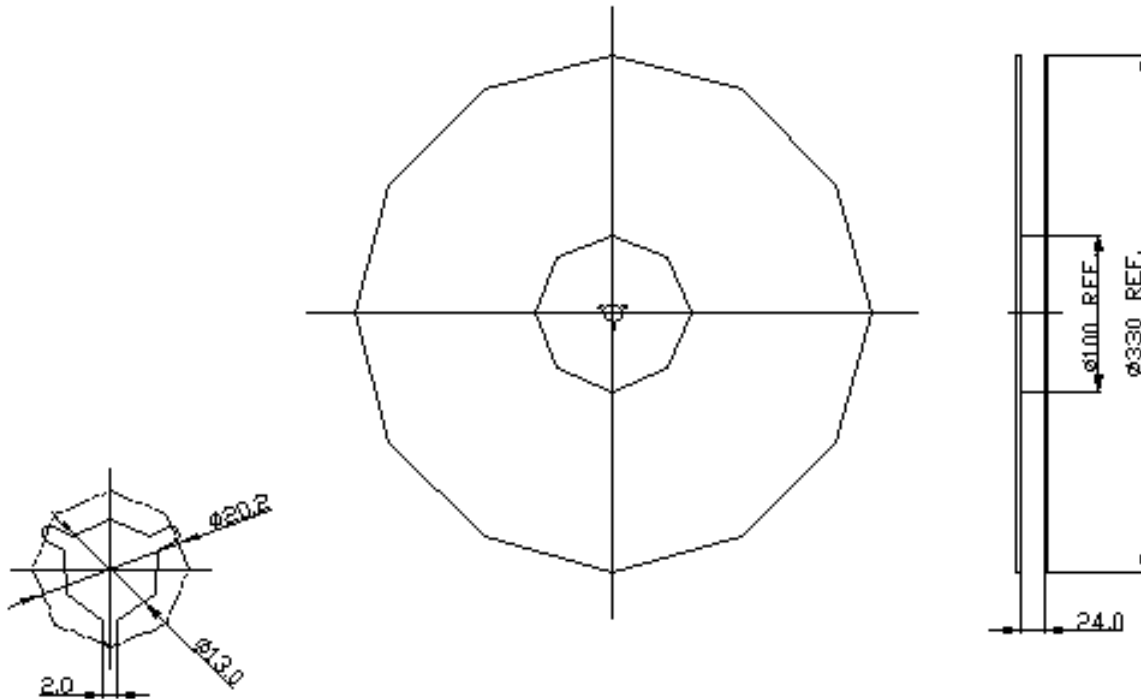


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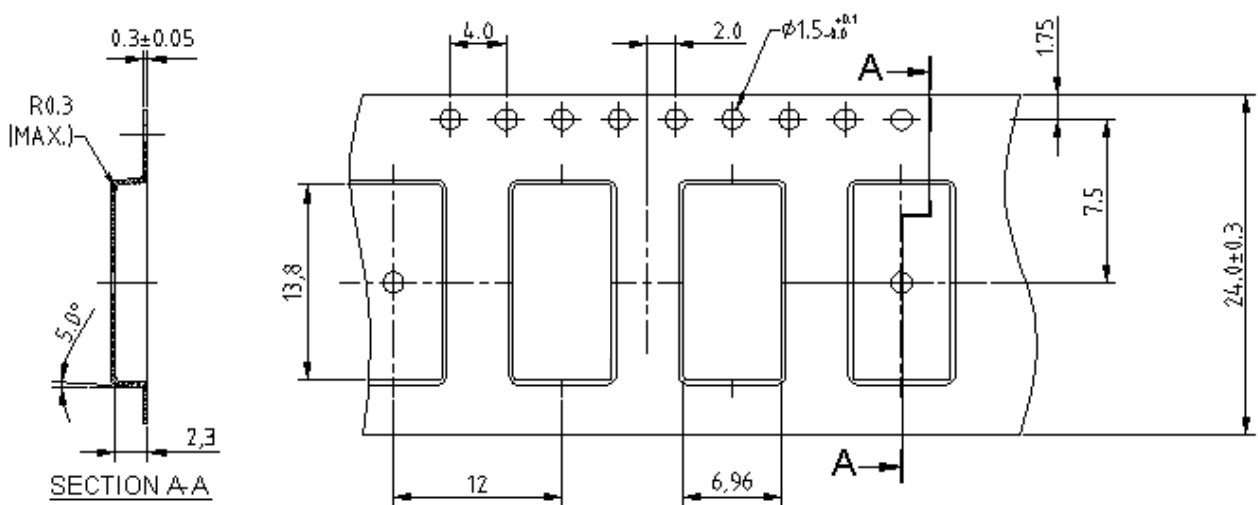
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G. PACKING:

1. Reel Dimensions:



2. Tape Dimensions:



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H. RECOMMENDED REFLOW PROFILE:

