

SAW Filter 140MHz
Part No: MP02644

Model: TB0746A
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. Operating Temperature: -20°C to +80°C
3. Storage Temperature: -40°C to +85°C

B. CHARACTERISTICS:

Ambient Temperature: 25°C

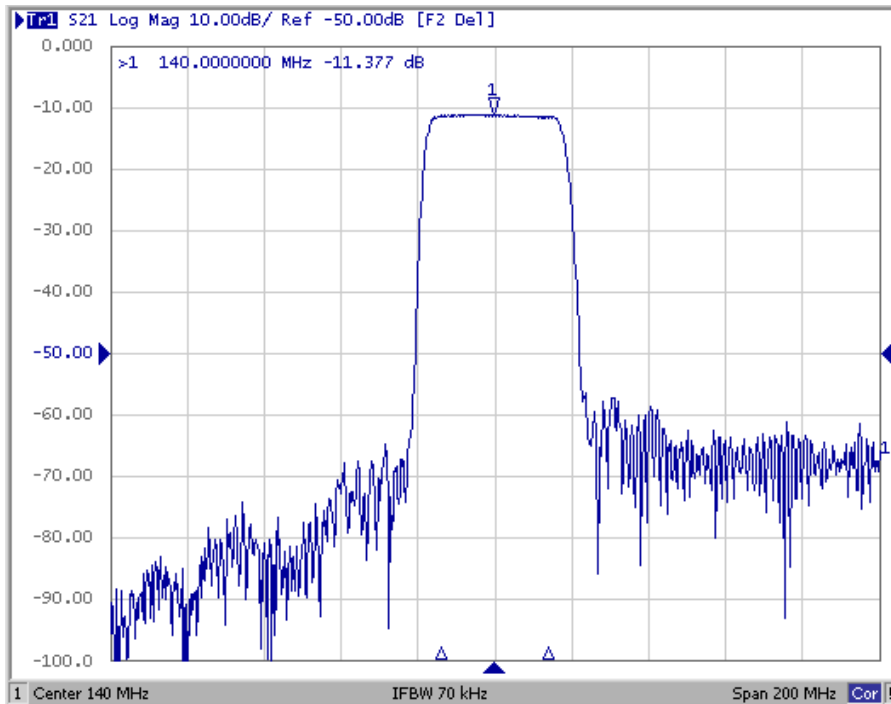
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	140.0	-	-
Minimum Insertion loss IL dB	-	11.3	13.0	-
1dB BW MHz	30.0	33.0	-	-
3dB BW MHz	32.0	35.0	-	-
35dB BW MHz	-	42.4	44.0	-
Passband Ripple (80% of 3dB BW) dB	-	0.6	1.2	-
Phase Linearity (80% of 3dB BW) deg	-	5.0	14	-
Delay Variation (80% of 3dB BW) nsec	-	50	120	-
Absolute Delay usec	-	0.55	-	-
Substrate Material	YZ-LiNbO3			-
Temp Coefficient ppm/K	-	-94	-	-
Matching: 1. The input of the filter will be matched to 50Ω 2. The output of the filter will be matched to 50Ω				

SAW Filter 140MHz
Part No: MP02644

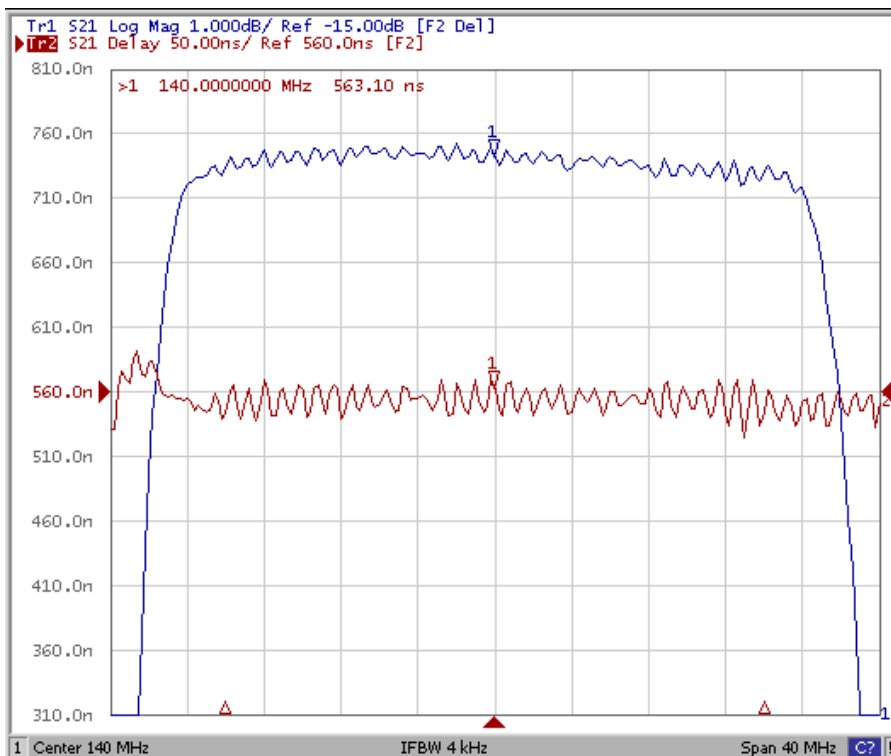
Model: TB0746A
Rev No: 1

C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 200MHz)



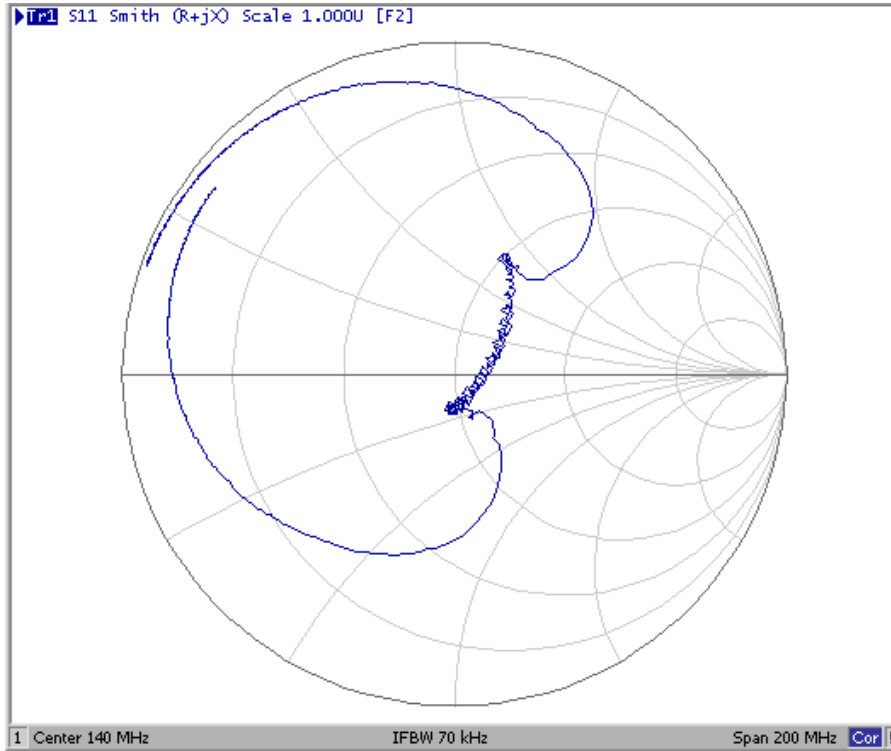
2. Pass band Response and Group Delay Variation: (span 40MHz)



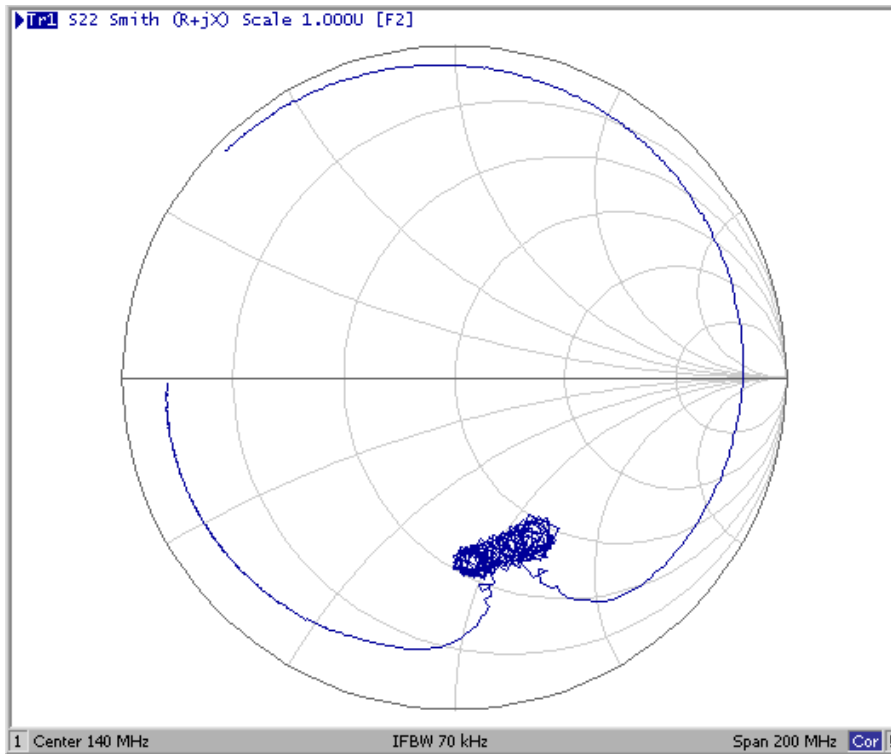
SAW Filter 140MHz
Part No: MP02644

Model: TB0746A
Rev No: 1

3. S11 Smith-Chart: (span 200MHz)



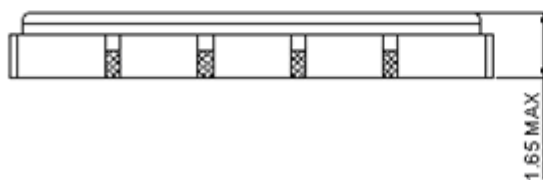
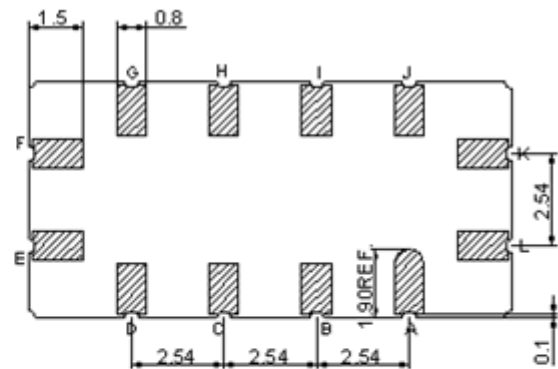
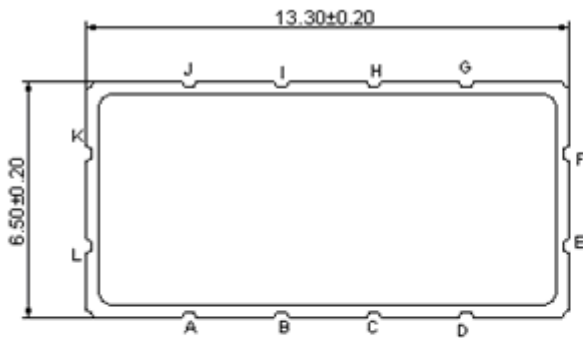
4. S22 Smith-Chart: (span 200MHz)



SAW Filter 140MHz
Part No: MP02644

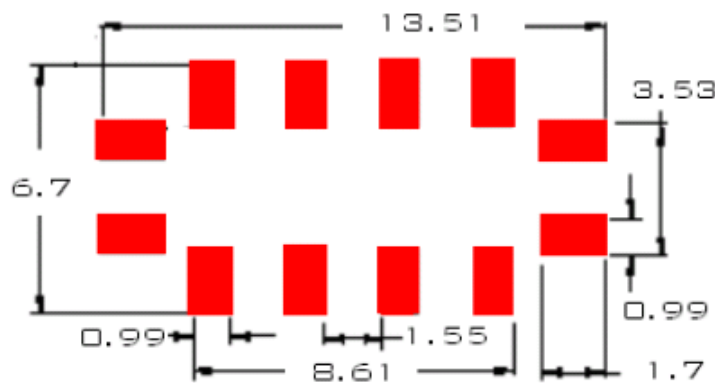
Model: TB0746A
Rev No: 1

D. OUTLINE DRAWING:

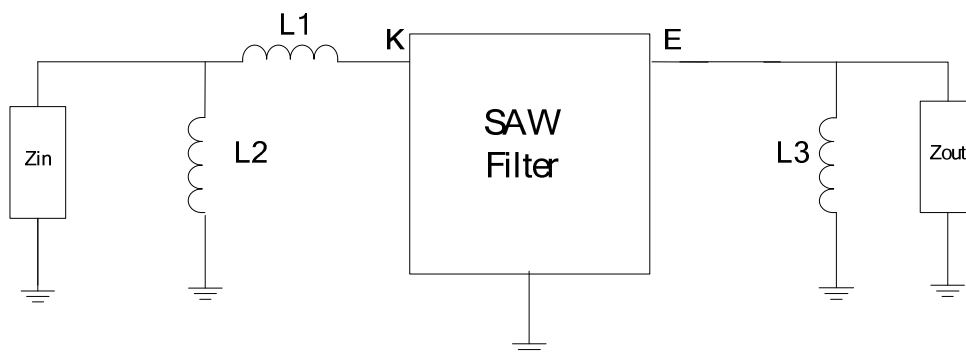


Pin K: RF Input
 Pin E: RF Output
 Pin A, B, C, D, F, G, H, I, J, L: Ground
 Unit: mm

E. PCB FOOTPRINT:



F. MATCHING CIRCUIT:



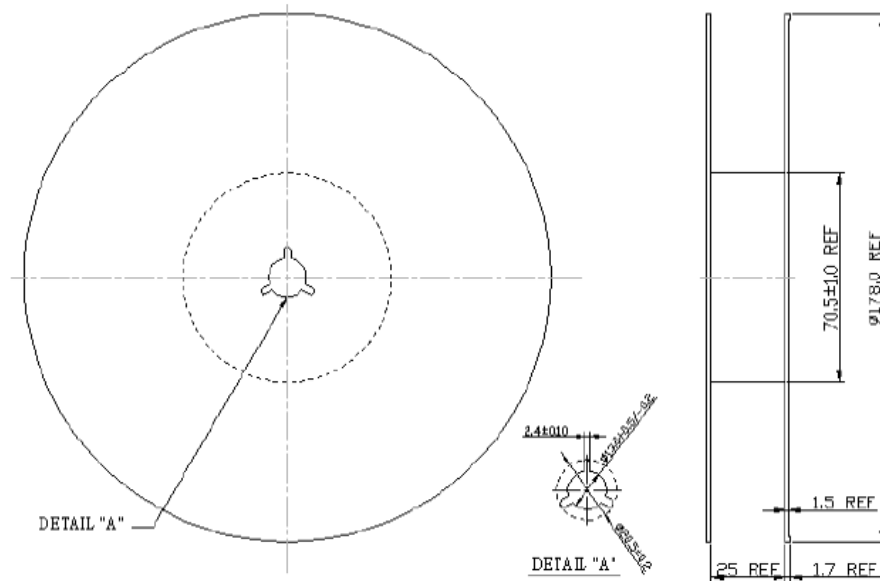
$$Z_{IN} = Z_{OUT} = 50\Omega, L1 = 10\text{nH}, L2 = 27\text{nH}, L3 = 68\text{nH}$$

SAW Filter 140MHz
Part No: MP02644

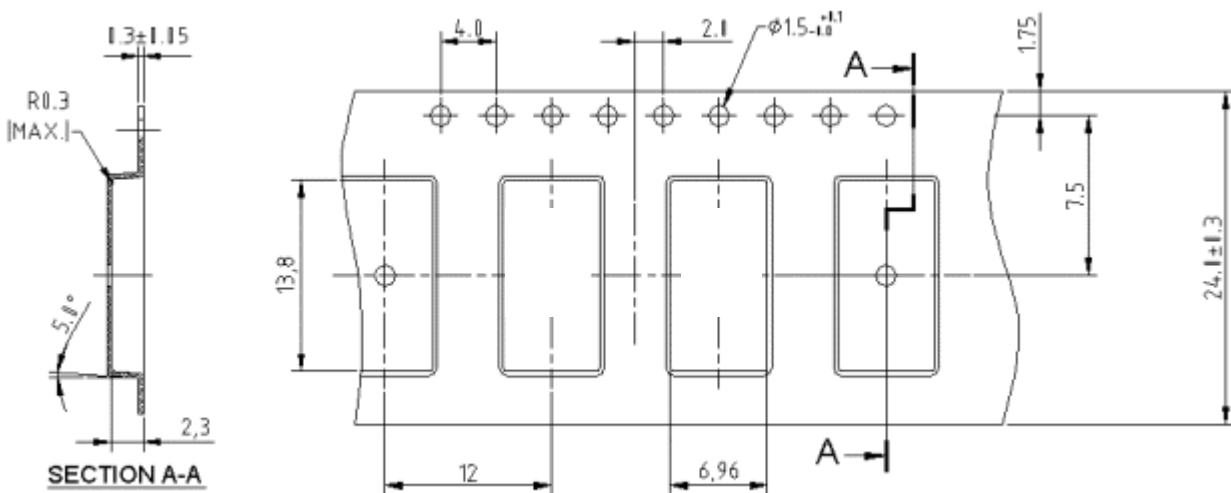
Model: TB0746A
Rev No: 1

G. PACKING:

1. Reel Dimension



2. Tape Dimension



SAW Filter 140MHz
Part No: MP02644

Model: TB0746A
Rev No: 1

H. RECOMMENDED REFLOW PROFILE:

