

SAW Filter 154.040MHz

Model: TB1083A

Part No: MP05753

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

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

B. CHARACTERISTICS:

Ambient Temperature: 25 °C

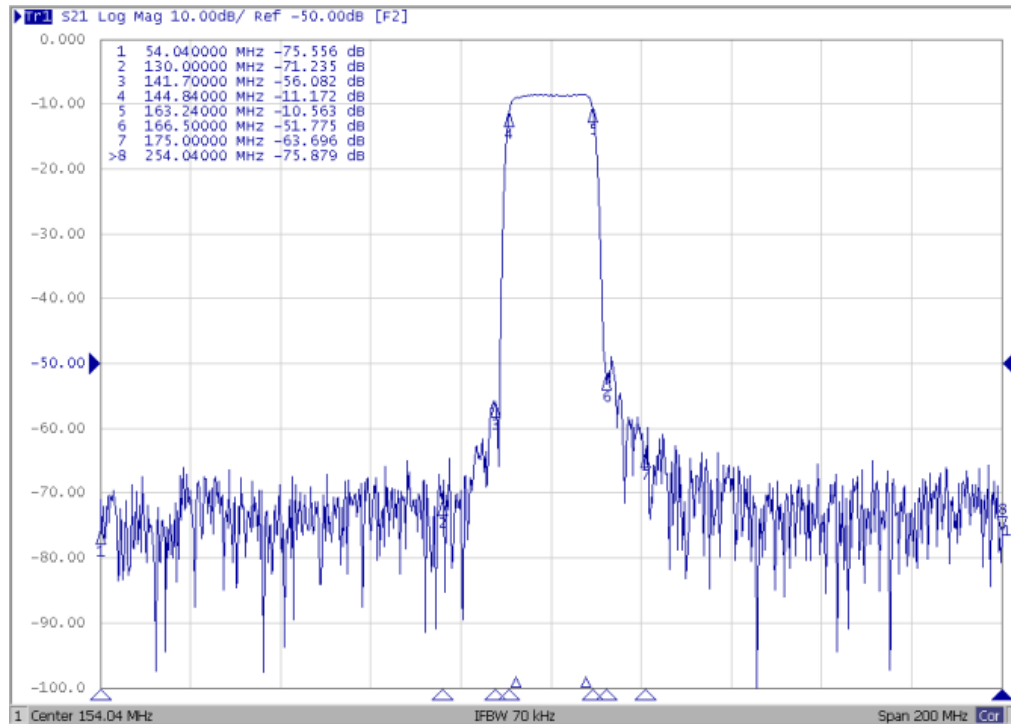
Characteristics	Min.	Typ.	Max.	Note
Center frequency Fc MHz	-	154.04	-	-
Minimum Insertion loss IL dB	-	8.5	13.0	-
Lower 1dB Band Edge		145.41	146.29	
Upper 1 dB Band Edge	161.79	162.85		
1dB BW MHz	16.0	16.53	-	
Passband Ripple (146.29 ~ 161.79MHz) dB	-	0.5	1.2	-
Return Loss (146.29 ~ 161.79MHz) dB		6		
Attenuation (Reference to Minimum Insertion loss)				
10 ~ 50MHz dB	45	55	-	-
50 ~ 130MHz dB	40	53	-	-
130 ~ 141.7MHz dB	35	44	-	
142.48 ~ 144.84MHz dB	-	2.6	-	-
163.24 ~ 165.48MHz dB	-	2.1	-	-
166.5 ~ 175MHz dB	35	42	-	
175 ~ 300MHz dB	40	52	-	
300 ~ 420MHz dB	45	54	-	
Temp Coefficient ppm/K	-	-94	-	-

SAW Filter 154.040MHz
Part No: MP05753

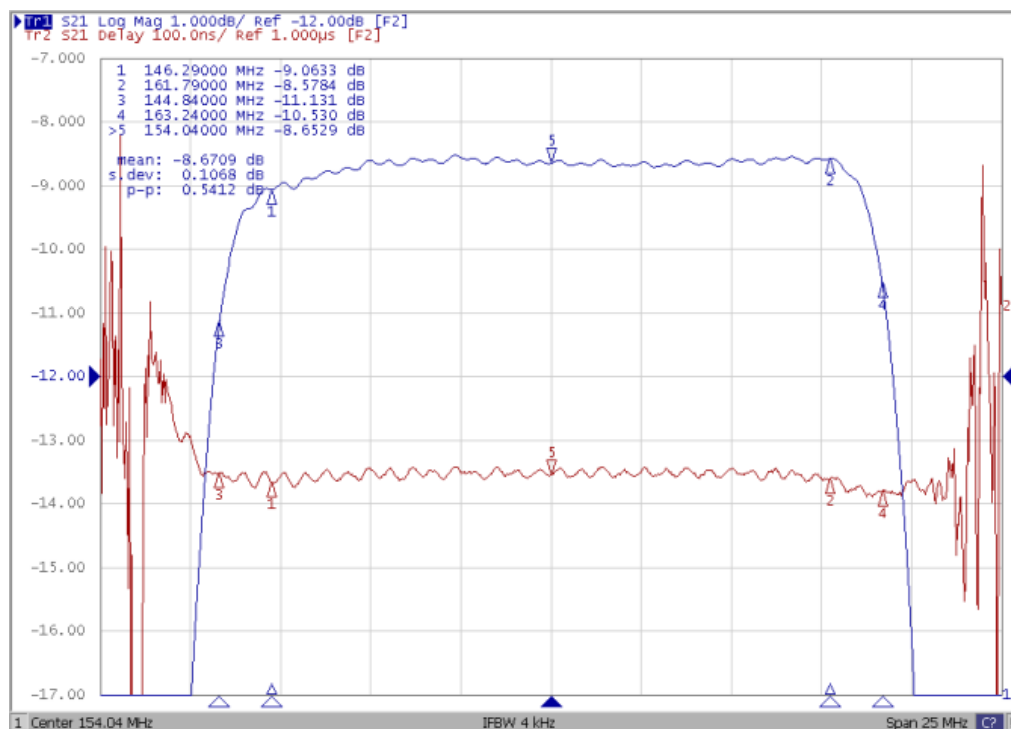
Model: TB1083A
Rev No: 1

C. FREQUENCY CHARACTERISTICS:

1. Sdd21 Response: (span: 200MHz)



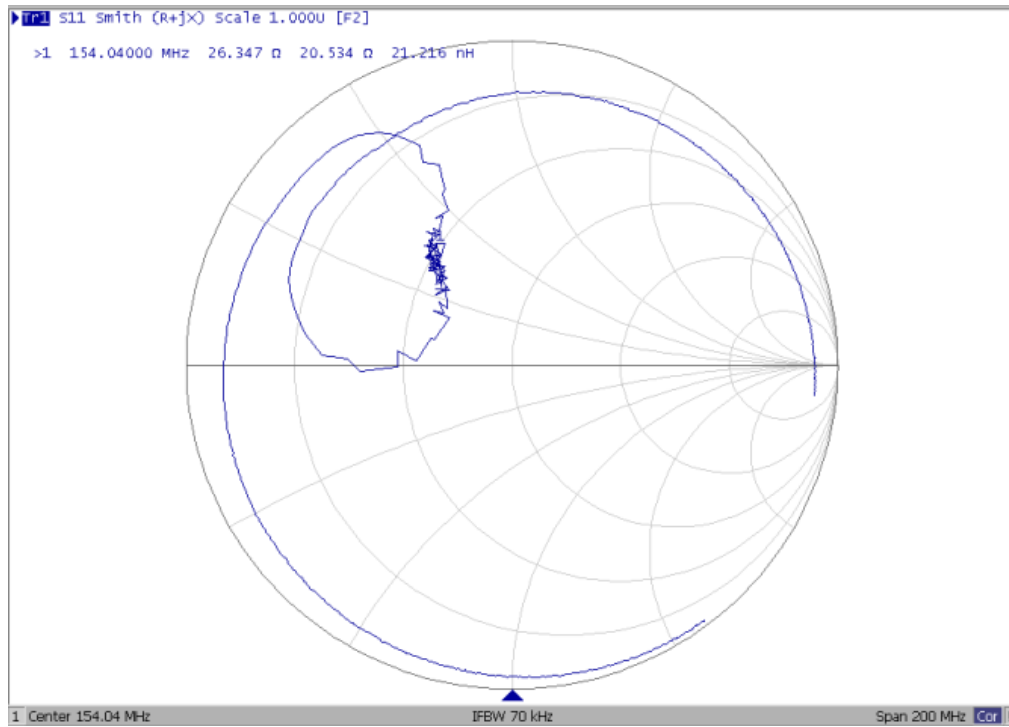
2. Pass-band Response: (span: 60MHz)



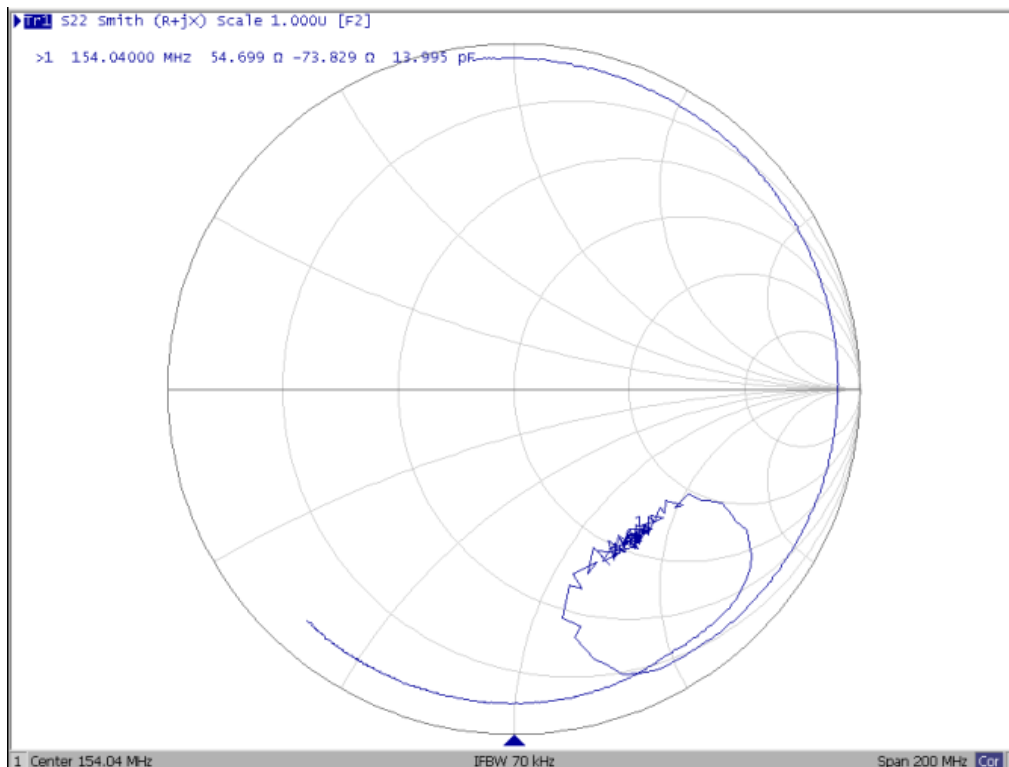
SAW Filter 154.040MHz
Part No: MP05753

Model: TB1083A
Rev No: 1

3. S11 Smith Chart (span: 200MHz)



4. S22 Smith Chart (span: 200MHz)



SAW Filter 154.040MHz

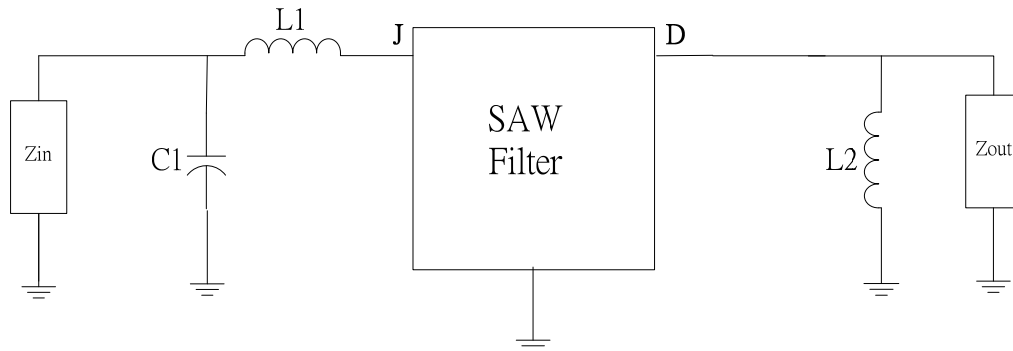
Model: TB1083A

Part No: MP05753

Rev No: 1

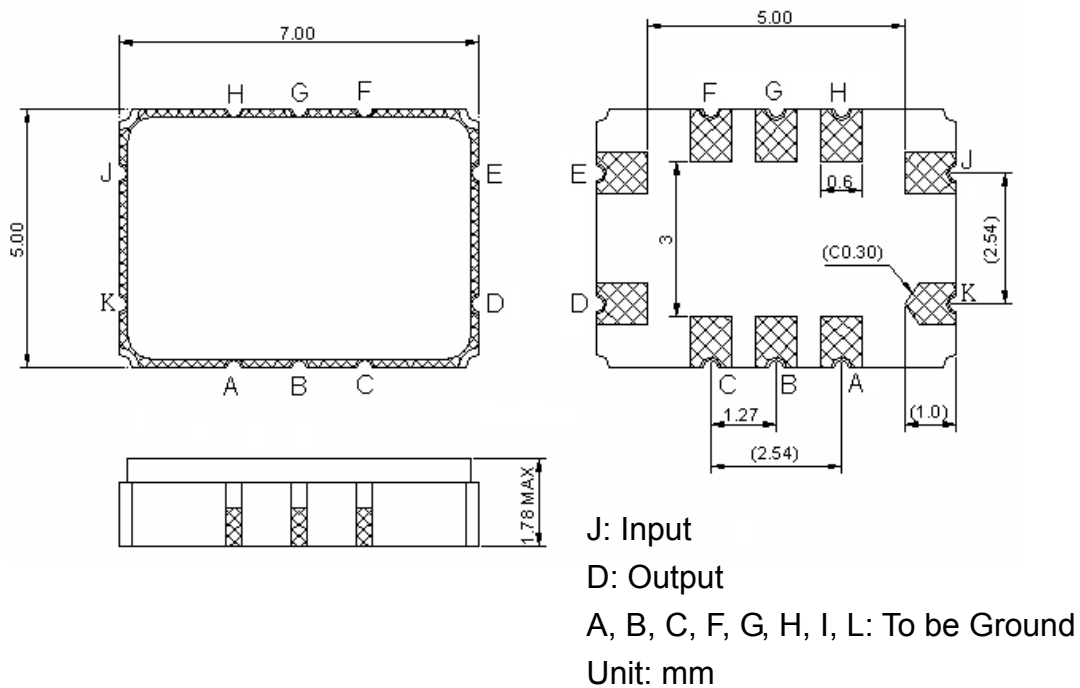
D. MEASUREMENT CIRCUIT:

$$Z_{IN} = 50\Omega; Z_{OUT} = 50\Omega$$

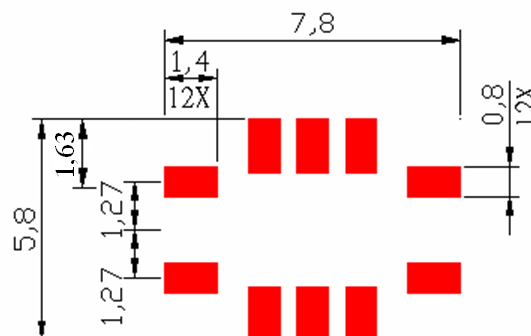


$$L1 = 68\text{nH}, C1 = 4.7\text{pF}, L2 = 100\text{nH}$$

E. OUTLINE DRAWING:



F. PCB FOOTPRINT:

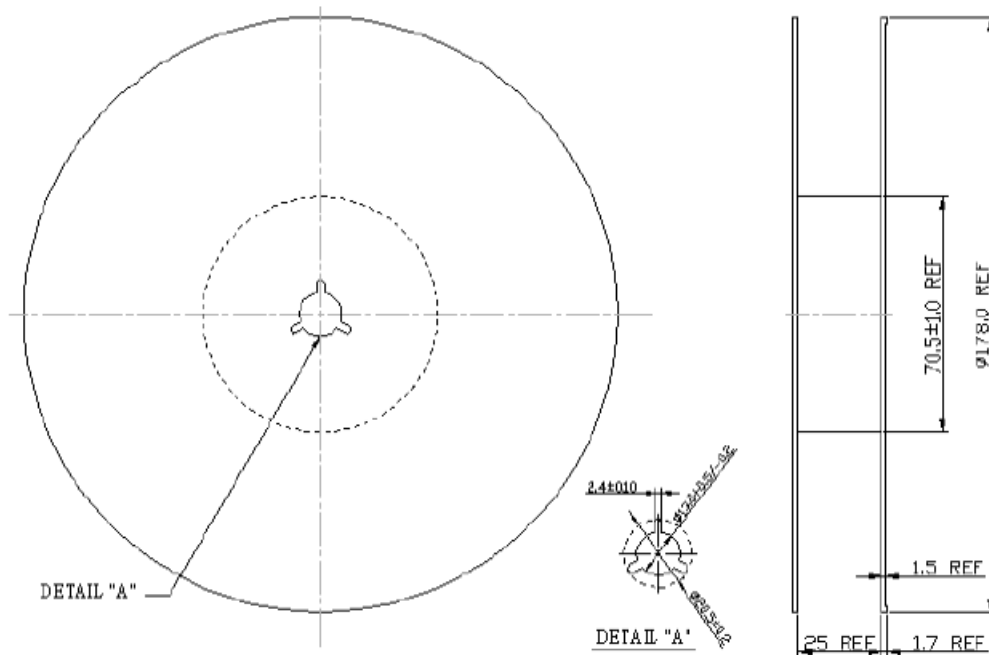


SAW Filter 154.040MHz
Part No: MP05753

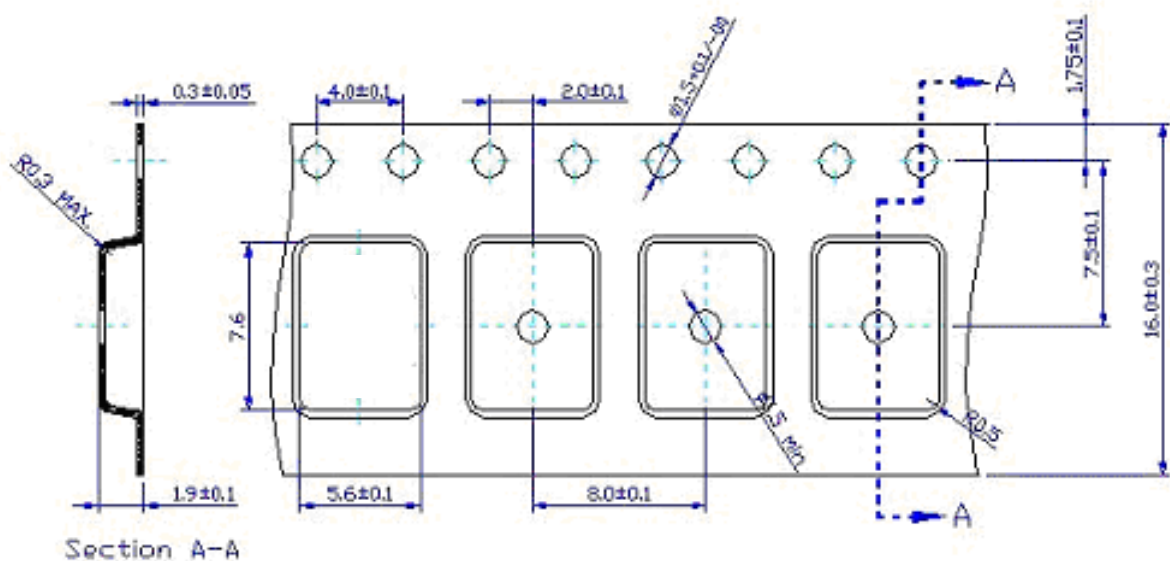
Model: TB1083A
Rev No: 1

G. PACKING:

1. Reel Dimension



2. Tape Dimension



SAW Filter 154.040MHz

Model: TB1083A

Part No: MP05753

Rev No: 1

H. RECOMMENDED REFLOW PROFILE:

