



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Filter 104MHz SMD 13.3×6.5mm

TST Parts No.:TB0754B (AEC-Q200 compliant)

Customer Parts No.:_____

Customer signature required

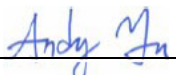
Company:_____

Division:_____

Approved by : _____

Date:_____

Checked by:_____ V.J Fanchian 

Approval by:_____ Andy Yu 

Date:_____ 2017.04.25

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes



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SAW Filter 104 MHz(BW=20MHz) SMD 13.3mmX6.5mm

MODEL NO.: TB0754B

REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +125 °C
3. Input power: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Ambient Temperature: 25 °C

Electrostatic Sensitive Device (ESD)

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency F_c	MHz	-	104.0	-	-
Minimum Insertion loss I.L.					
93.2MHz ~ 113.2MHz	dB	-	10.8	15.0	-
Passband Ripple					
93.2MHz ~ 113.2MHz	dB	-	0.6	1.5	-
Attenuation					
10MHz ~ 86MHz	dB	40	52	-	-
122MHz ~ 200MHz	dB	40	45	-	-
Substrate Material		YZ-LiNbO3			-
Temp Coefficient					
ppm/K		-	-94	-	-
Matching:					
1.The input of the filter will be matched to <u>50 ohm</u>					
2.The output of the filter will be matched to <u>50 ohm</u>					

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 200MHz)

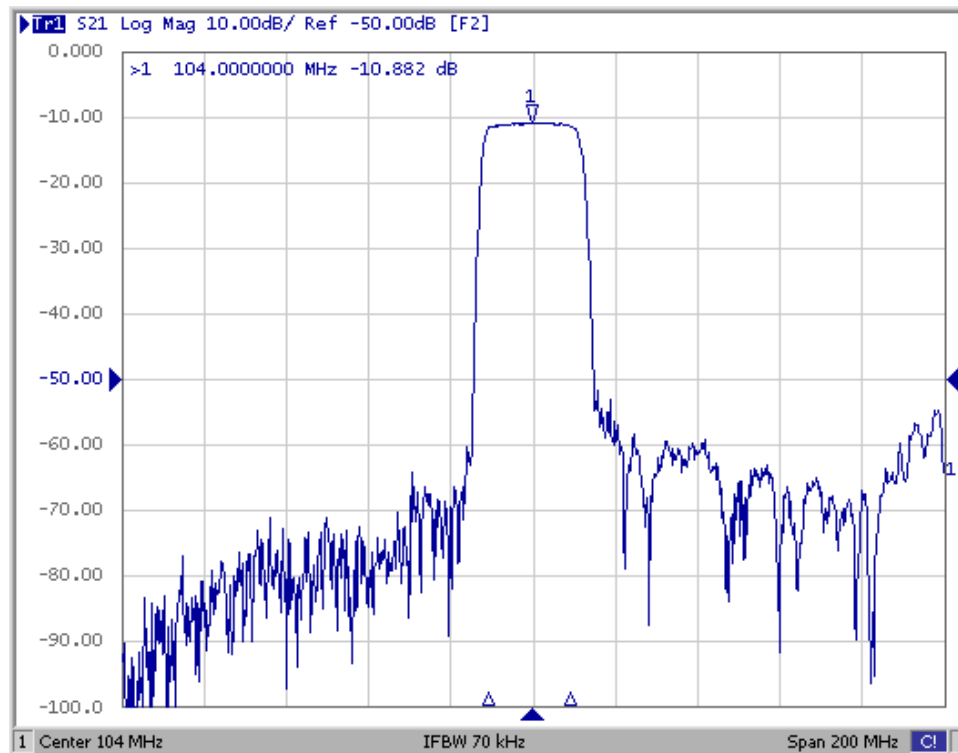


Fig1. Horizontal:20MHz/Div Vertical: 10dB/Div

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

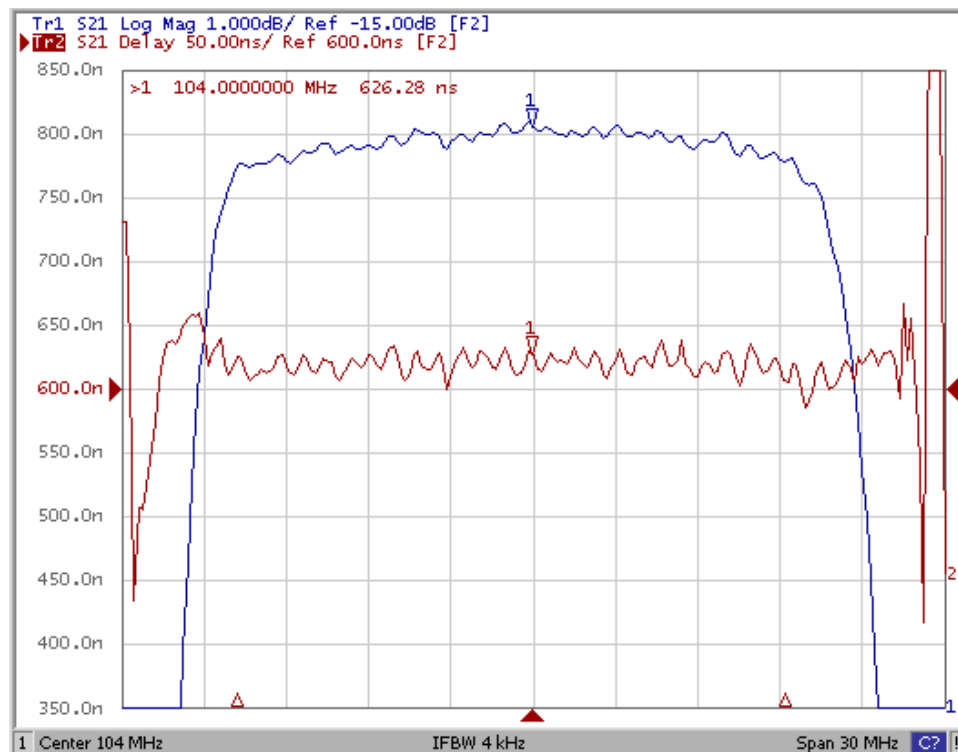
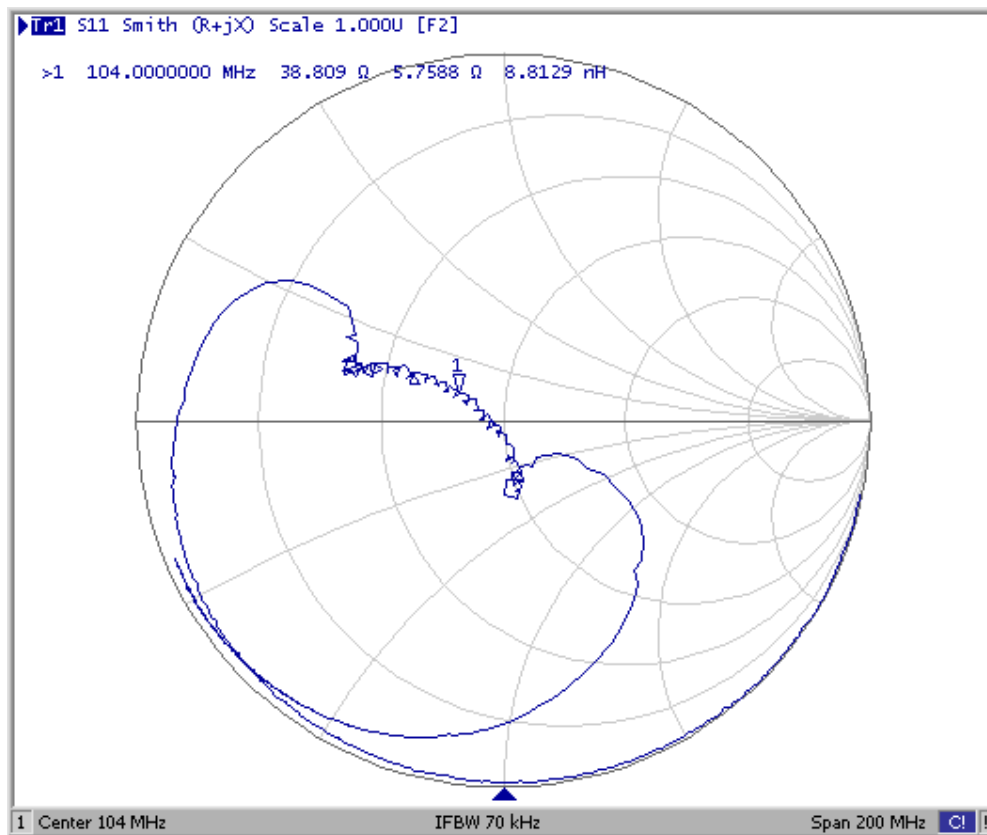
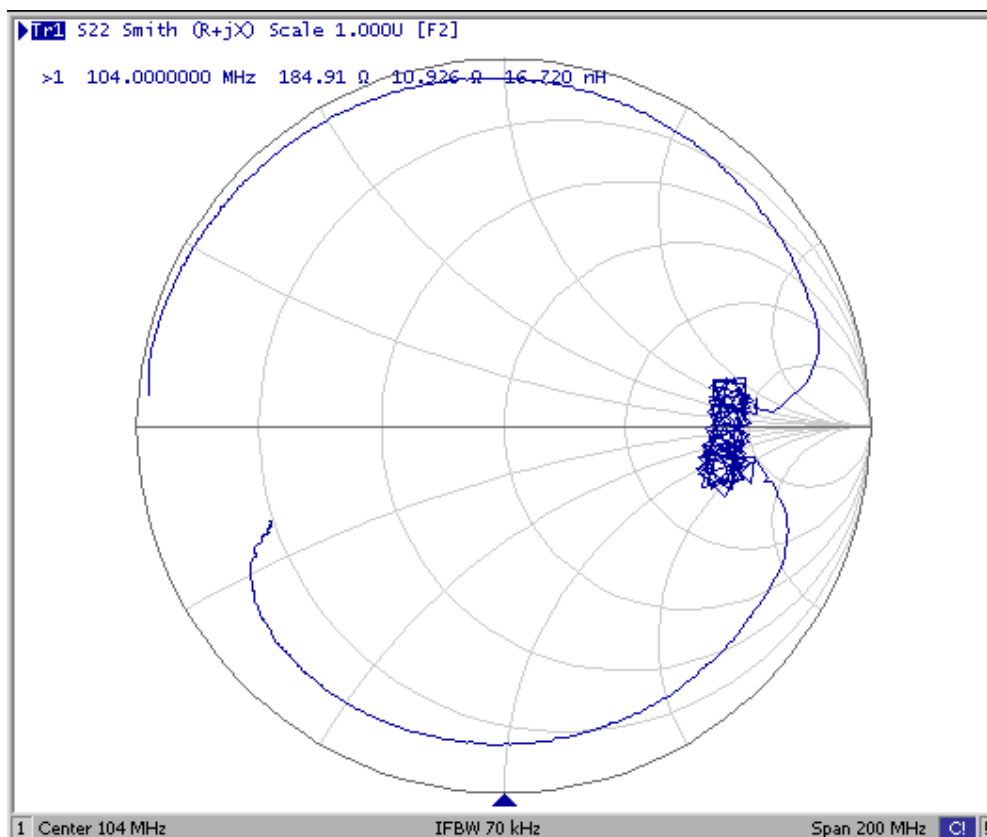


Fig2. Horizontal: 3.0MHz/Div Vertical: 50nec/Div

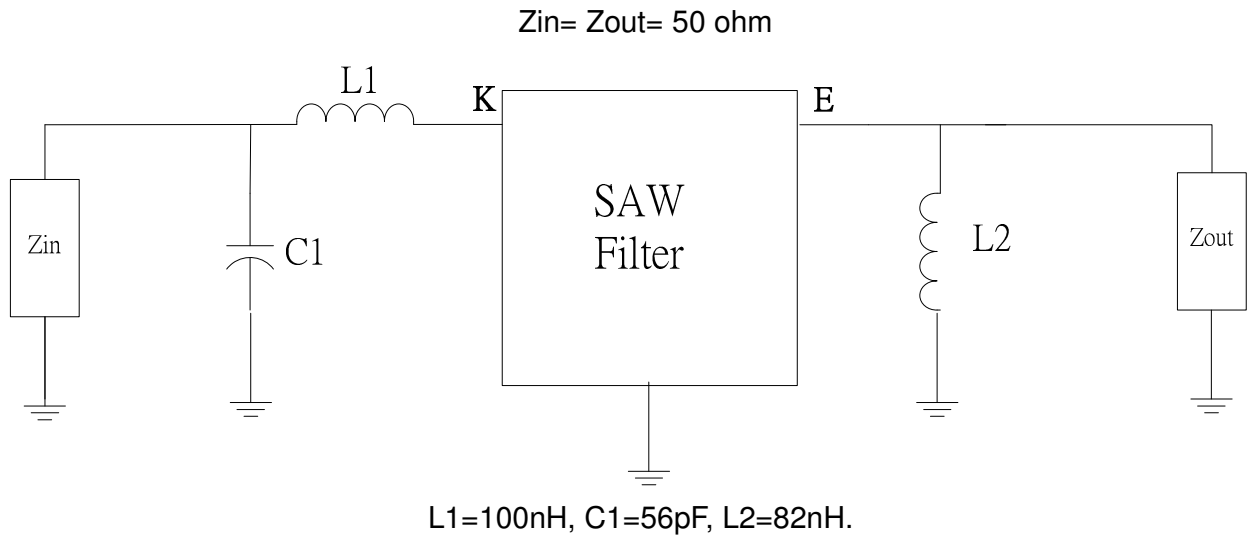
3. S11 Smith Chart: (span : 200MHz)



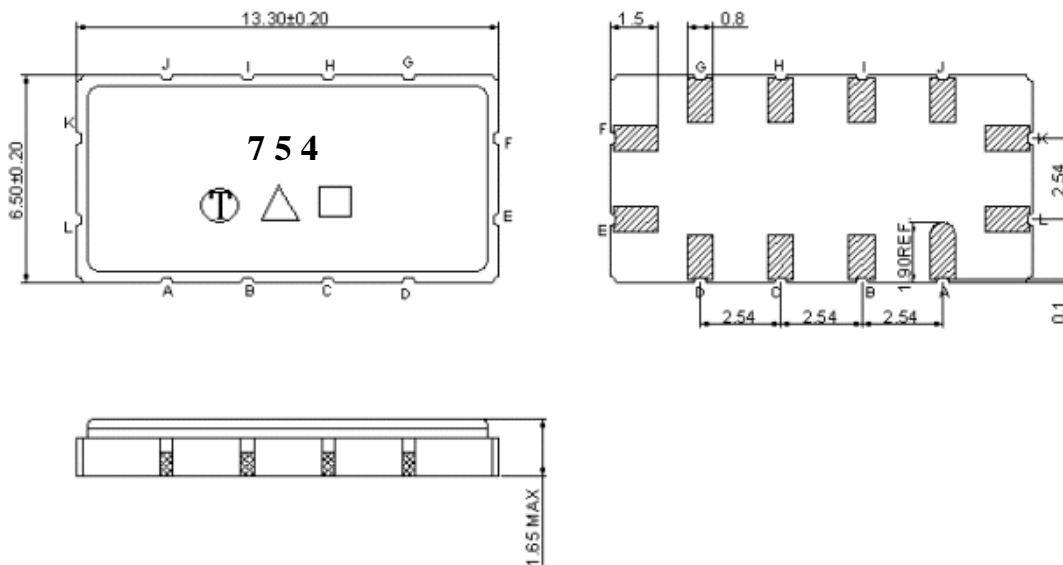
4. S22 Smith Chart (span : 200MHz)



E. MEASUREMENT CIRCUIT



F. OUTLINE DRAWING:



Pin K: RF input

Pin E: RF output

Pin A, B, C, D, G, H, I, L, F J: To be Ground

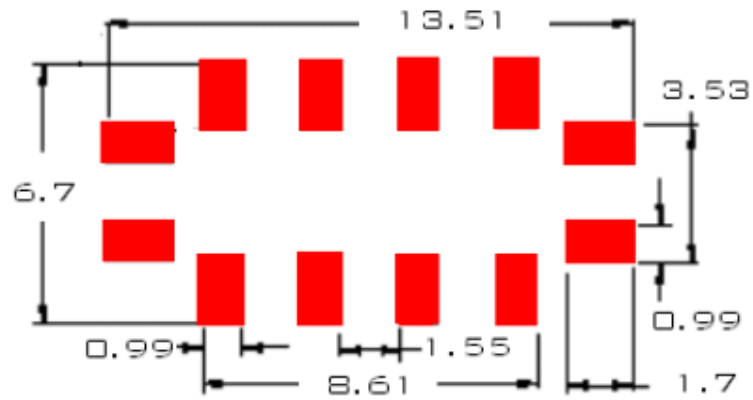
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	<u>B</u>	<u>b</u>

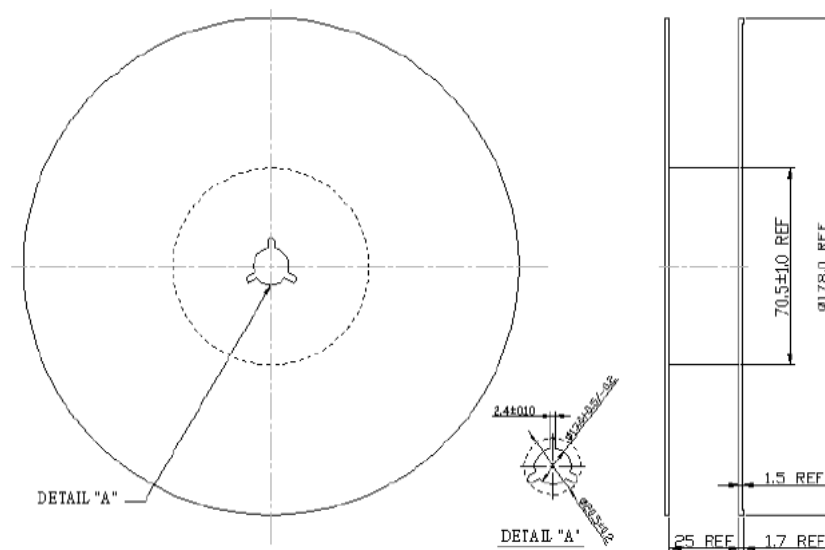
G. PCB Footprint



Unit: mm

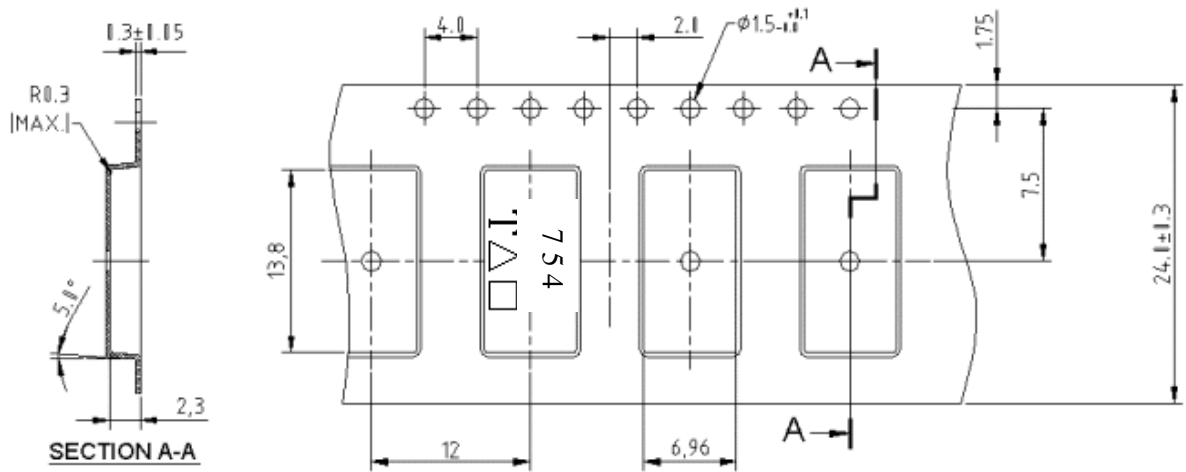
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE_:

