



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Filter 1747.5 MHz (BW 75 MHz) SMD 3.0x3.0 mm

TST Part No.: TA2743AA3112

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2021/06/15

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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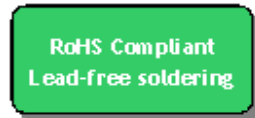
SAW Filter 1747.5 MHz (BW 75 MHz) SMD 3.0x3.0 mm

MODEL NO.:TA2743AA3112

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 16 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitive Level: MSL 1



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

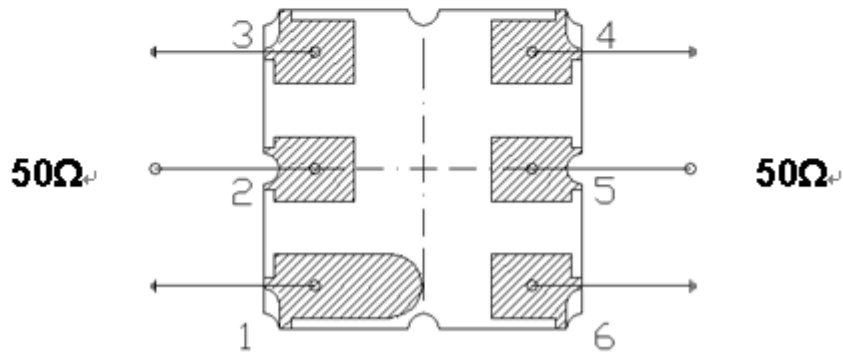
Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance (single) : $Z_L = 50 \Omega$

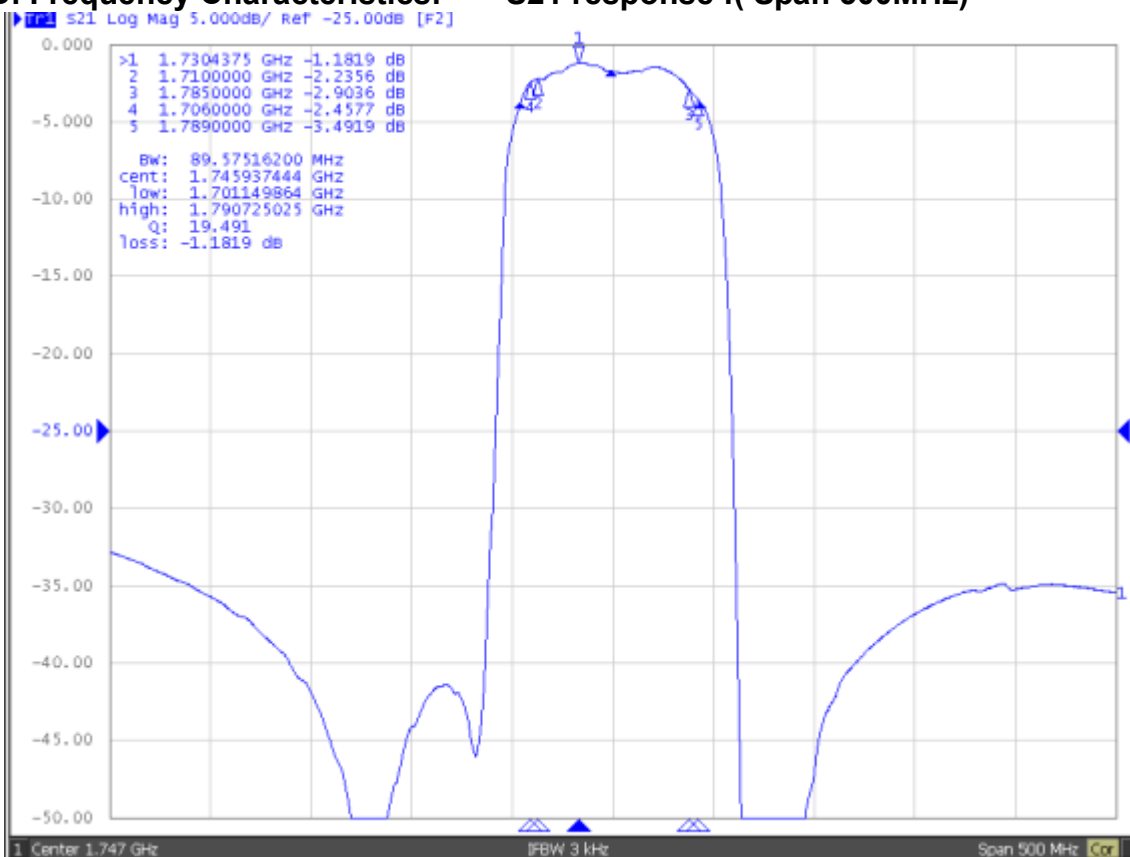
Item	Unit	Min.	Type.	Max.
Center Frequency	MHz	-	1747.5	-
Insertion Loss (1710 ~ 1785 MHz)	dB	-	2.5	3.8
Amplitude Ripple (1710 ~ 1785 MHz)	MHz	-	1.5	2.6
VSWR (1710 ~ 1785 MHz)	-	-	2.0	2.5
Attenuation				
10 ~ 720 MHz	dB	23	28	-
720 ~ 1670 MHz	dB	23	28	-
1670 ~ 1690 MHz	dB	10	20	-
1825 ~ 1880 MHz	dB	32	37	-
1880 ~ 2110 MHz	dB	30	35	-
2110 ~ 2170 MHz	dB	32	37	-
2170 ~ 2690 MHz	dB	33	38	-
2690 ~ 3800 MHz	dB	15	25	-
Temperature Coefficient of Frequency	ppm/C°	-36		
Package	mm	SMD_3.0x3.0		

C... TEST CIRCUIT:

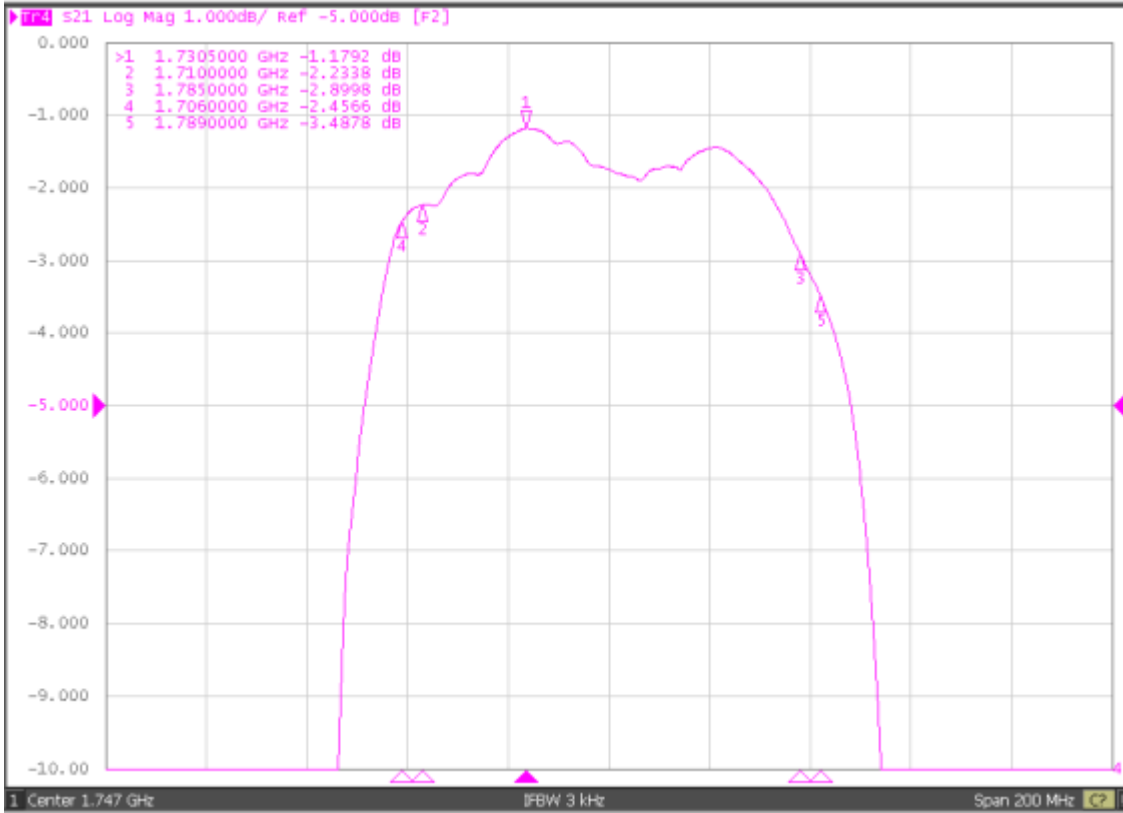
- (2): Unbalance Port
- (5): Unbalance Port
- Others: Ground



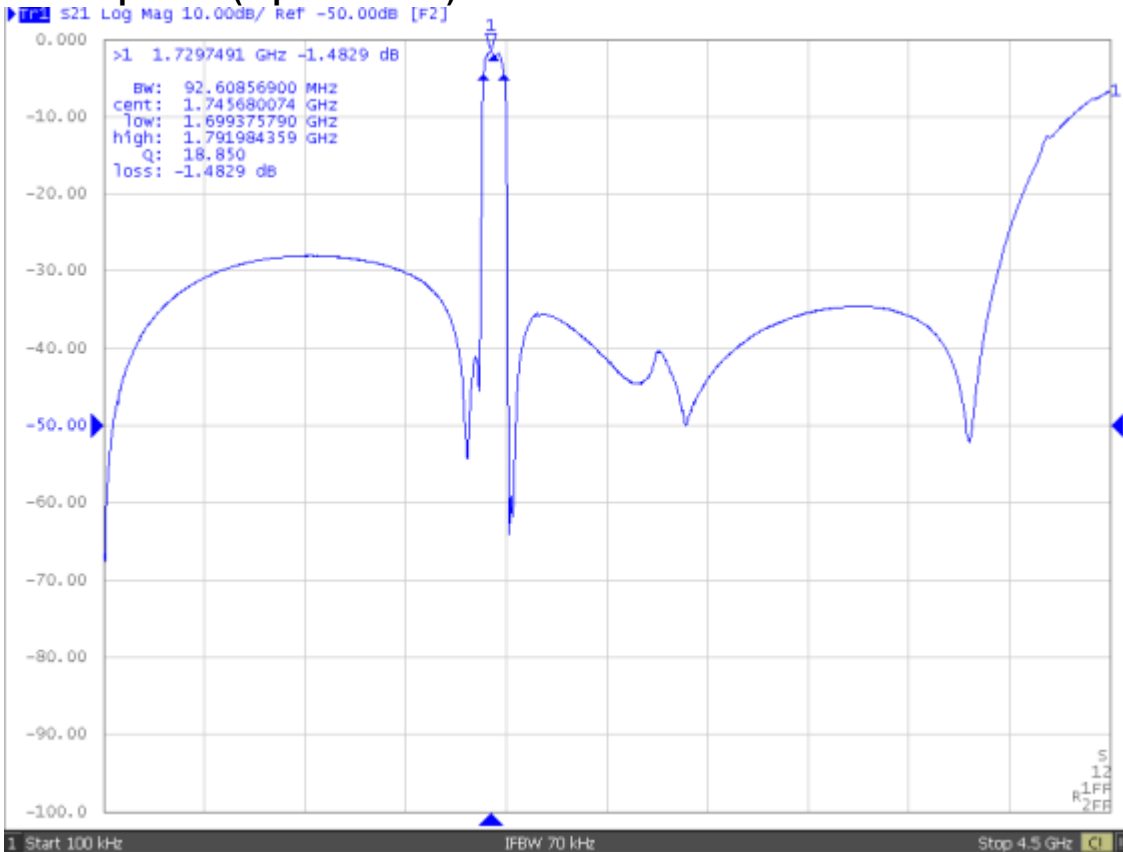
D. Frequency Characteristics: S21 response :(Span 500MHz)



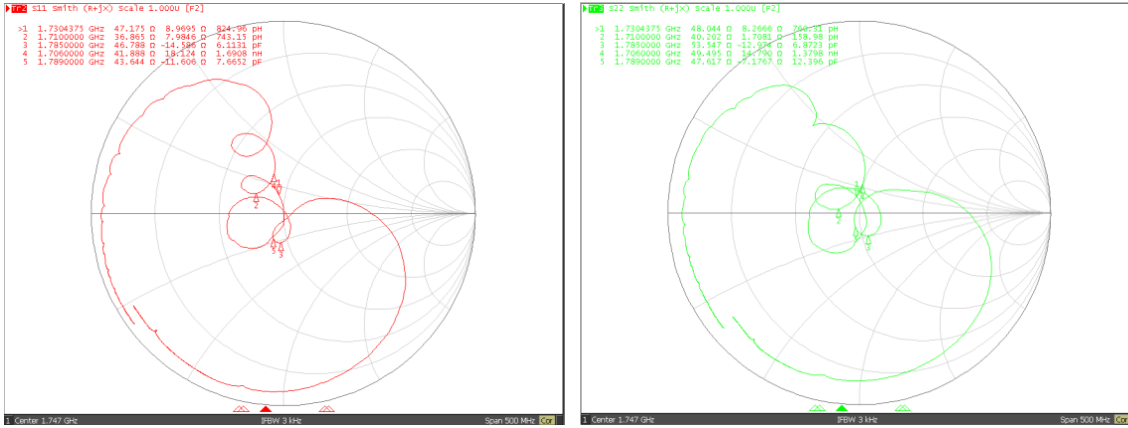
S21 response :(Span 20MHz)



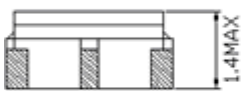
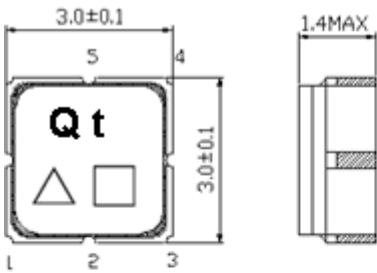
S21 response :(Span 4.5GHz)



ccS11/S22 response :(Span 500MHz)

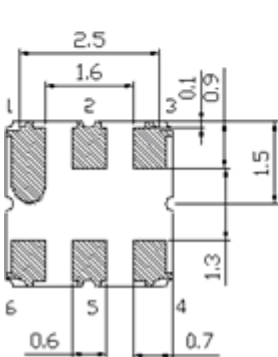


E.OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm



Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

Data code : See the table

WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

△ Year code : See the table

Year	2021	2022	2023	2024	...	2029	2030
Code	1	2	3	4	...	9	0

G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

