



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 869 MHz (BW 2MHz) SMD 3X3 mm

TST Part No.: TA2609A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/10/17

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 869MHz

MODEL NO.:TA2609A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm (at 50 °C during 50 000 hours)
2. Max Input Power pulse level: 27 dBm
3. DC Voltage : 10V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

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

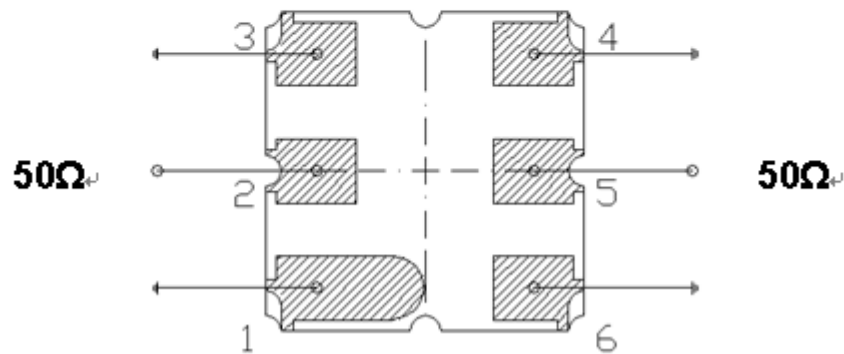
Item	Unit	Min	Type.	Max	Note
Center Frequency Fc	MHz	-	869.	-	
Insertion Loss (868~870 MHz) IL	dB		3.0	3.4	23 ~ 27°C
VSWR (868~870 MHz)			1.5	2.0	
Amplitude ripple					
(868~870 MHz)	dB		0.5	1.2	
Attenuation					
DC ~ 300 MHz	dB	45	50		
300 ~ 856.5 MHz	dB	40	45		
856.5 ~ 859.5 MHz	dB	15	20		
878 ~ 883.5 MHz	dB	15	20		23 ~ 27°C
883.5 ~ 1500 MHz	dB	48	53		23 ~ 27°C
1500 ~ 2600 MHz	dB	35	40		
Package size	mm	SMD 3x3			

C. TEST CIRCUIT:

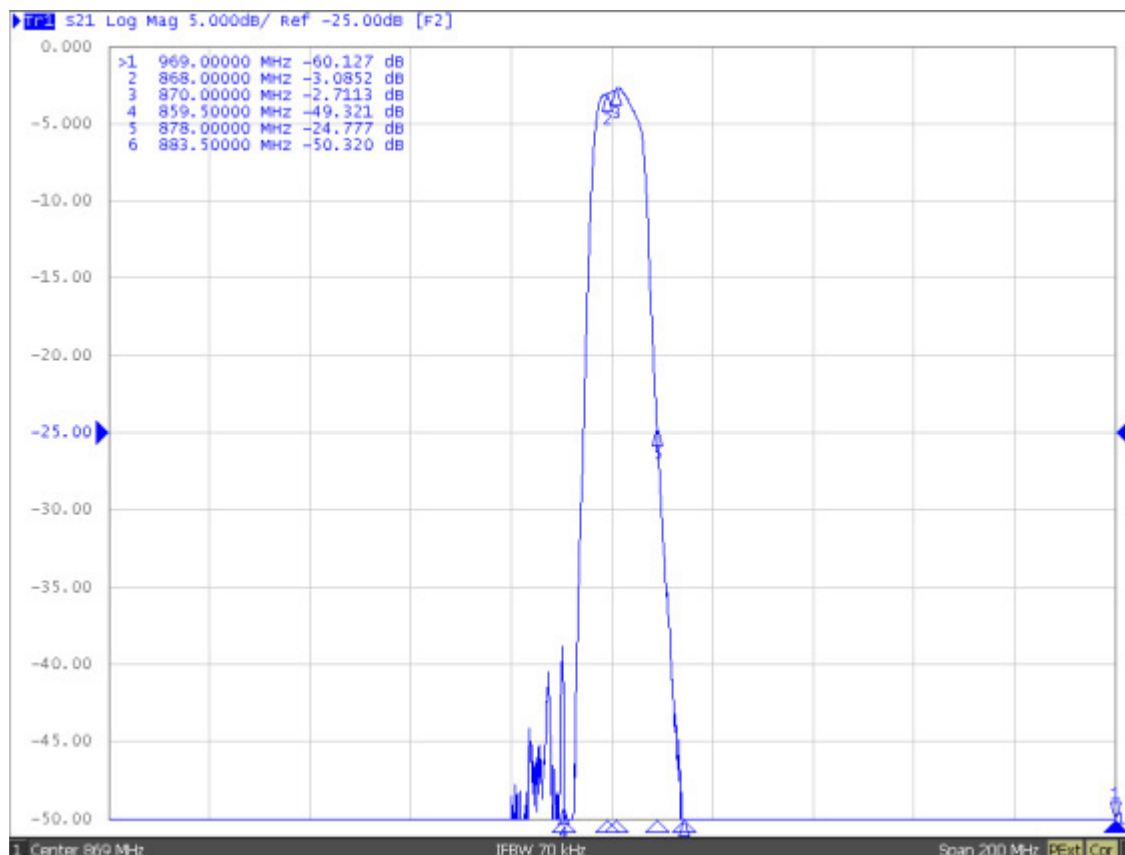
(2): Unbalance Port

(5): Unbalance Port

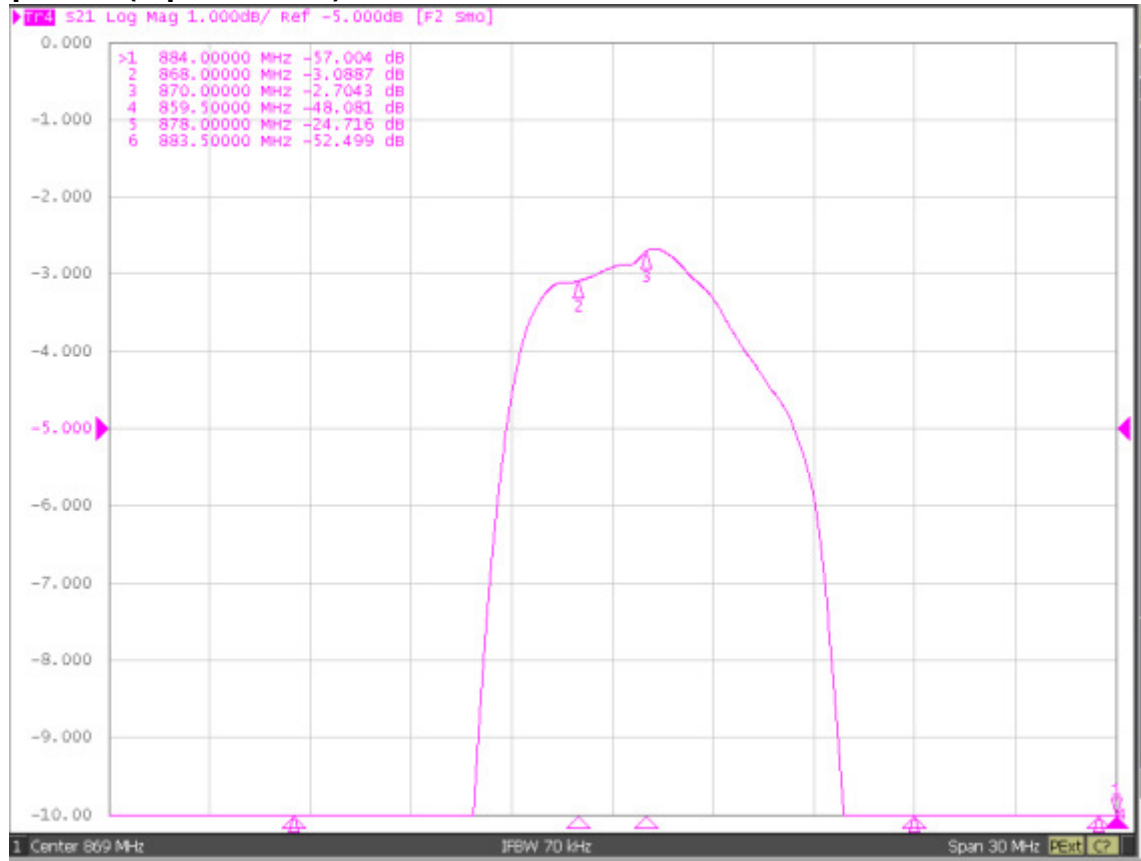
Others: Ground



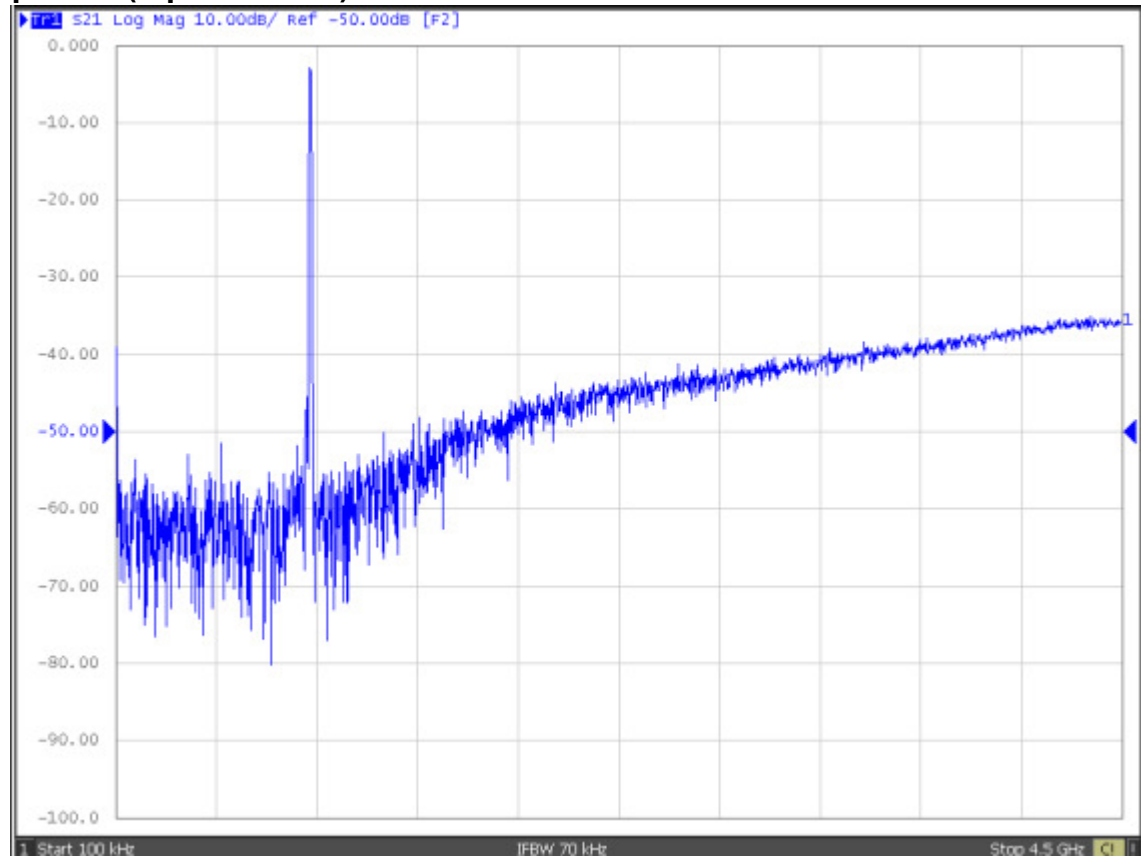
D. Frequency Characteristics: S21 response :(Span 200MHz)



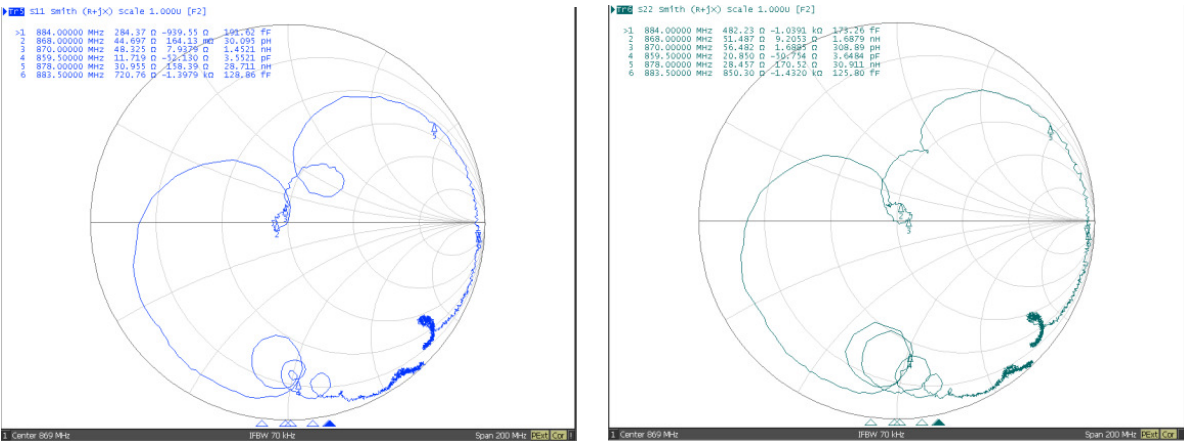
S21 response :(Span 30MHz)



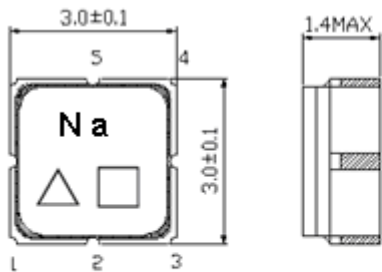
S21 response :(Span 4.5GHz)



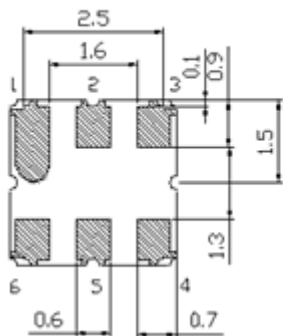
S11/S22 response:



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

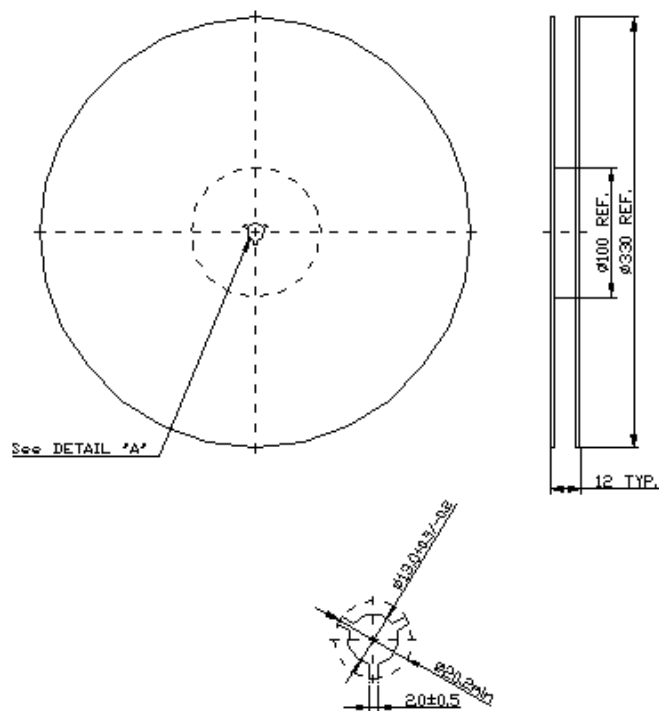
△ Year code : See the table

Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

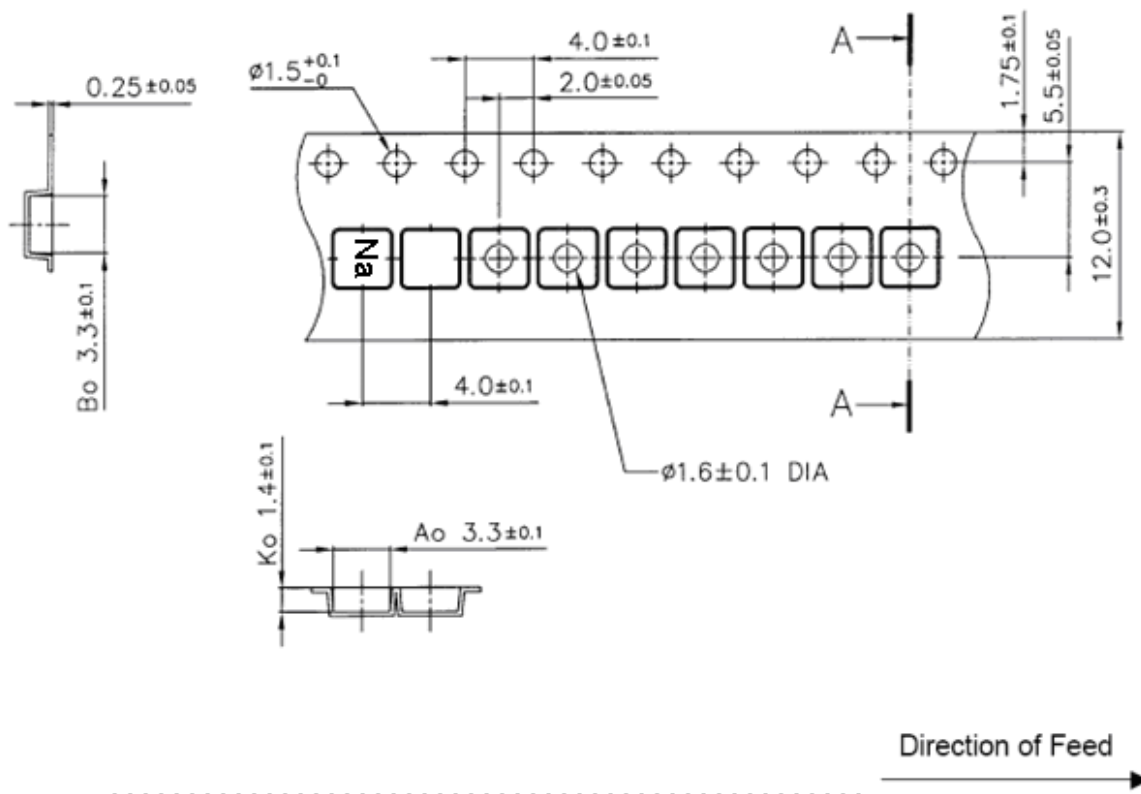
F. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION.



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.

