



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 1090 MHz (BW 2MHz) SMD 3X3 mm

TST Part No.: TA2540A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/05/17

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.

SAW Filter 1090MHz

MODEL NO.:TA2540A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 6V
3. Operating Temperature: -20°C to +60°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

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

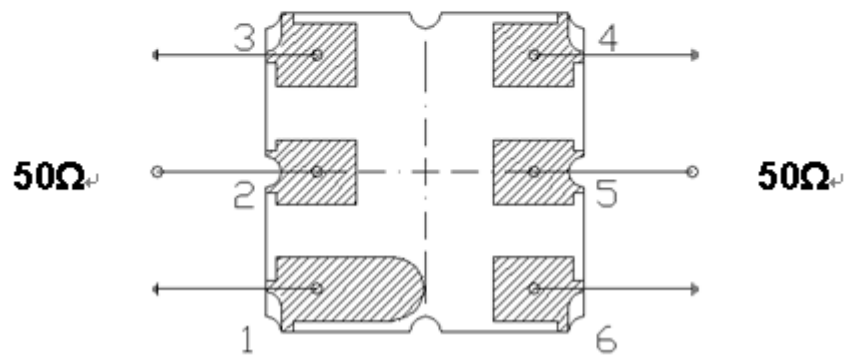
Item	Unit	Min	Type.	Max
Center Frequency F_c	MHz	-	1090.	-
Insertion Loss (1089~1091 MHz) IL	dB		3.0	4.0
VSWR (1089~1091 MHz)			1.5	2.0
Amplitude ripple				
(1089~1091 MHz)	dB		0.5	1.2
Attenuation				
1084.5 ~ 1095.5 MHz	dB	4	5	23~ 27°C
1080 ~ 1101 MHz	dB	25	30	23~ 27°C
1075 ~ 1105 MHz	dB	35	40	23~ 27°C
1065 ~ 1115 MHz	dB	45	50	
1050 ~ 1130 MHz	dB	50	55	
Temperature coefficient	ppm/°C	-36		
Package size	mm	SMD 3x3		

C..TEST CIRCUIT:

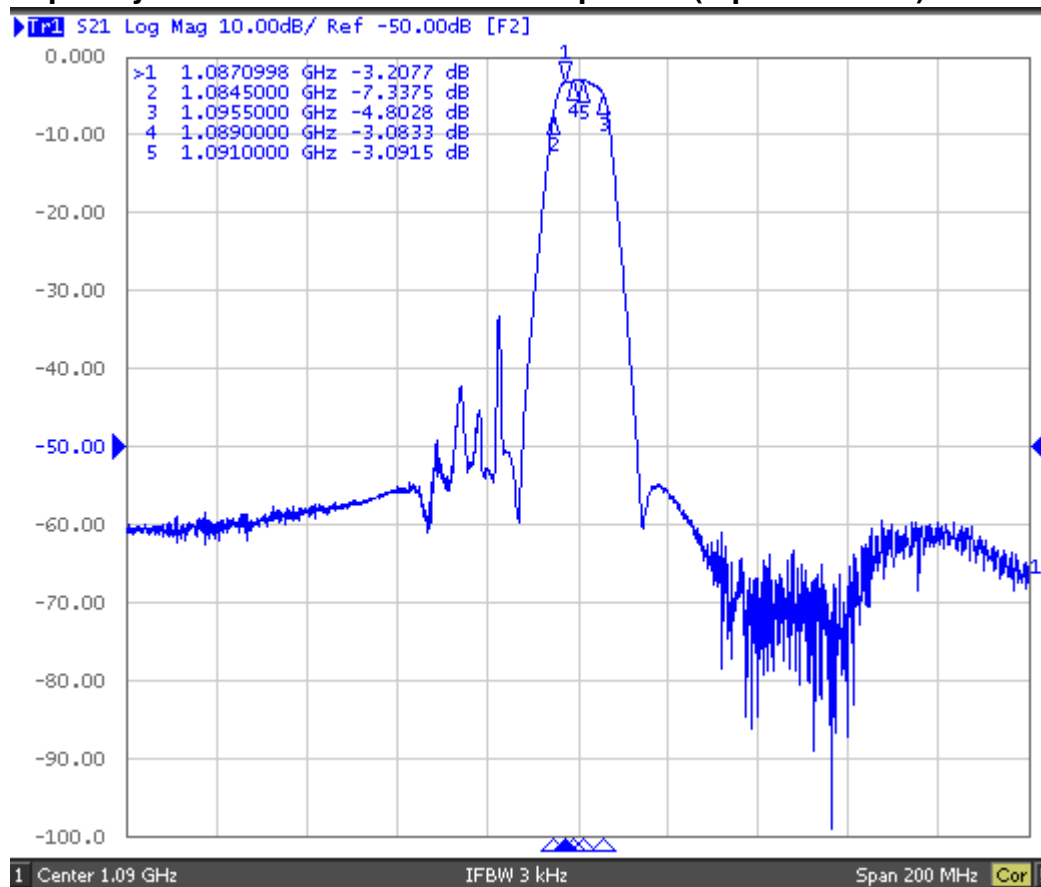
(2):·Unbalance·Port·

(5):·Unbalance·Port·

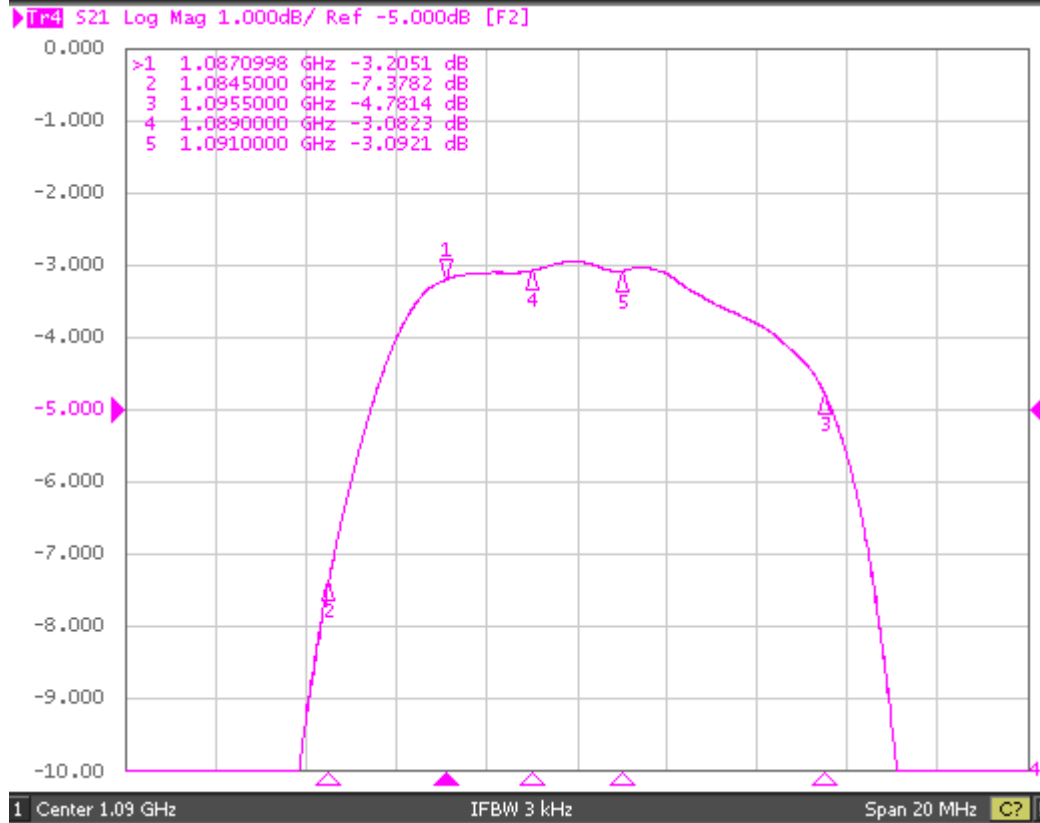
Others:·Ground·



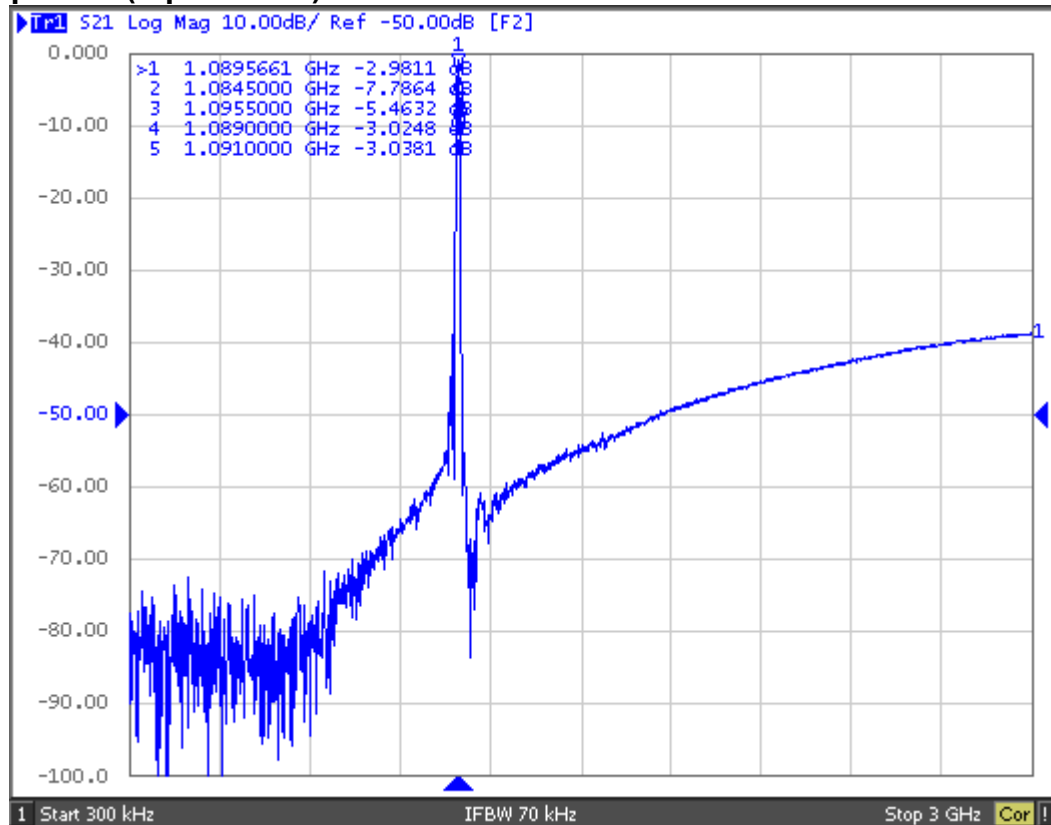
D. Frequency Characteristics: S21 response :(Span 200MHz)



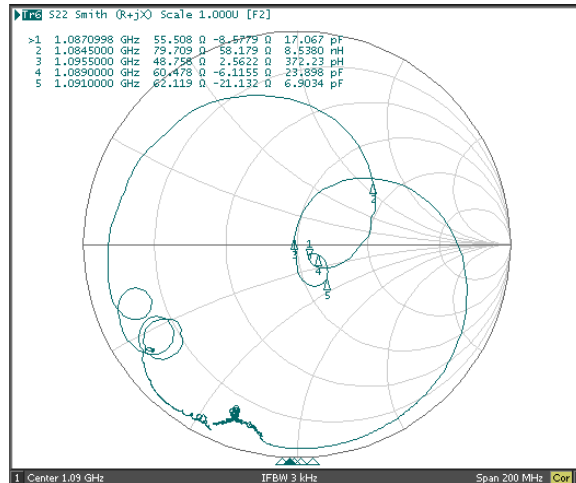
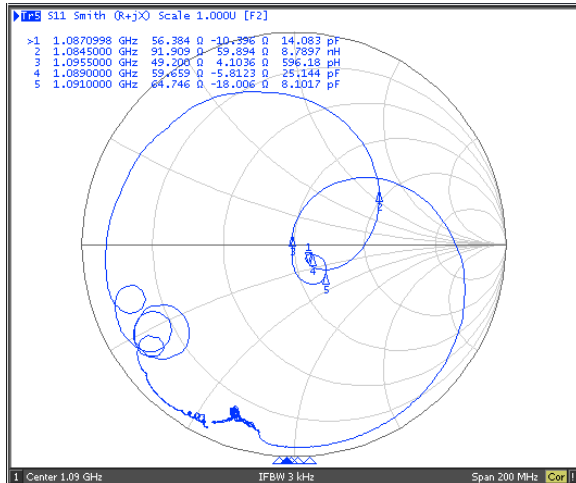
S21 response :(Span 20MHz)



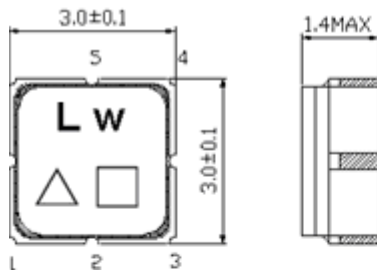
S21 response :(Span 3GHz)



S11/S22 : (Span 200MHz)

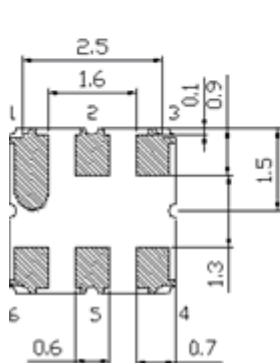


E.OUTLINE DRAWING:



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

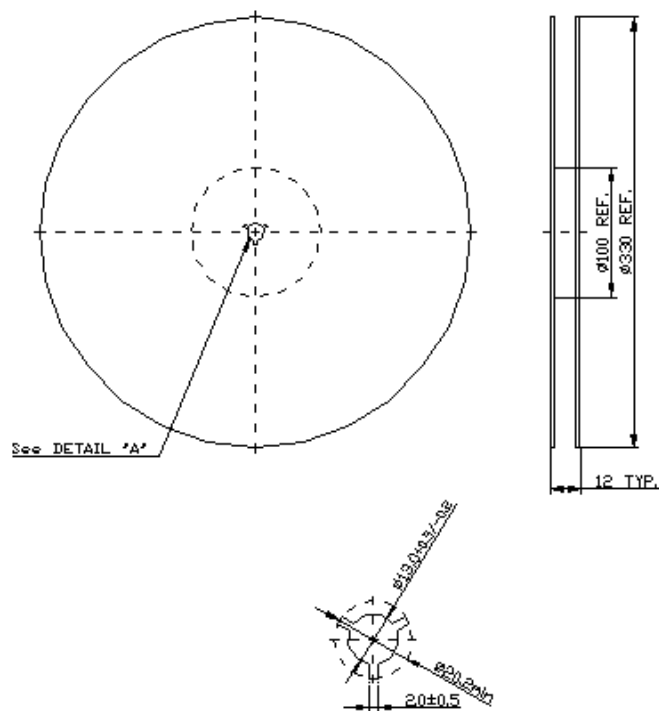
△ Year code : See the table

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

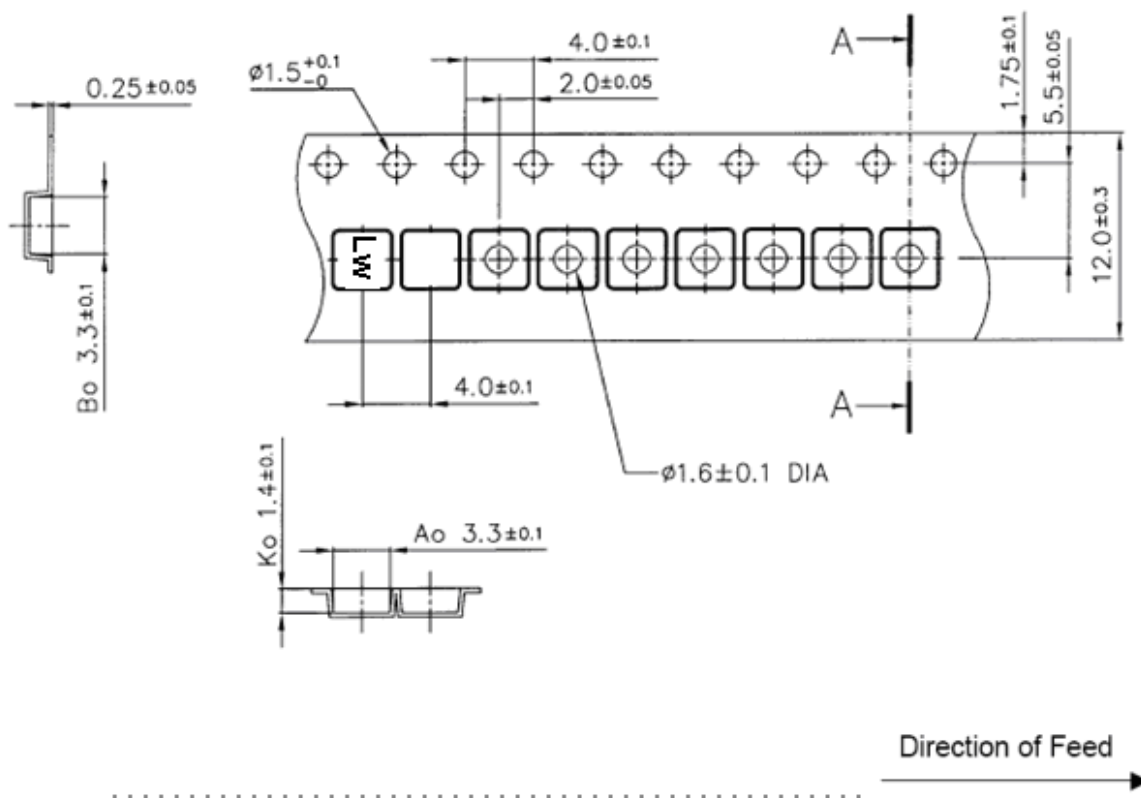
F. PACKING:

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.

