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 Name: SAW Filter 809 MHz SMD 3.8x3.8 mm (BW=30 MHz)

TST Parts No.: TA1558A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Hayley Chou

Approved by:_____ Andy Yu

Date:_____ 2020/03/23

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 809 MHz

MODEL NO.:TA1558A REV. NO.:2.0

RoHS Compliant
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

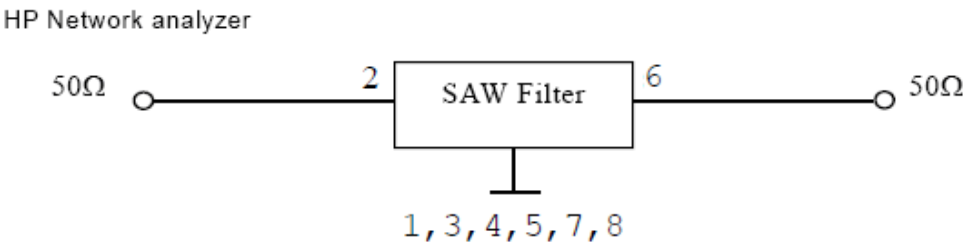
A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -30 ℃ to +85 ℃
4. Storage Temperature: -40 ℃ to +85 ℃
5. Moisture Sensitive Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

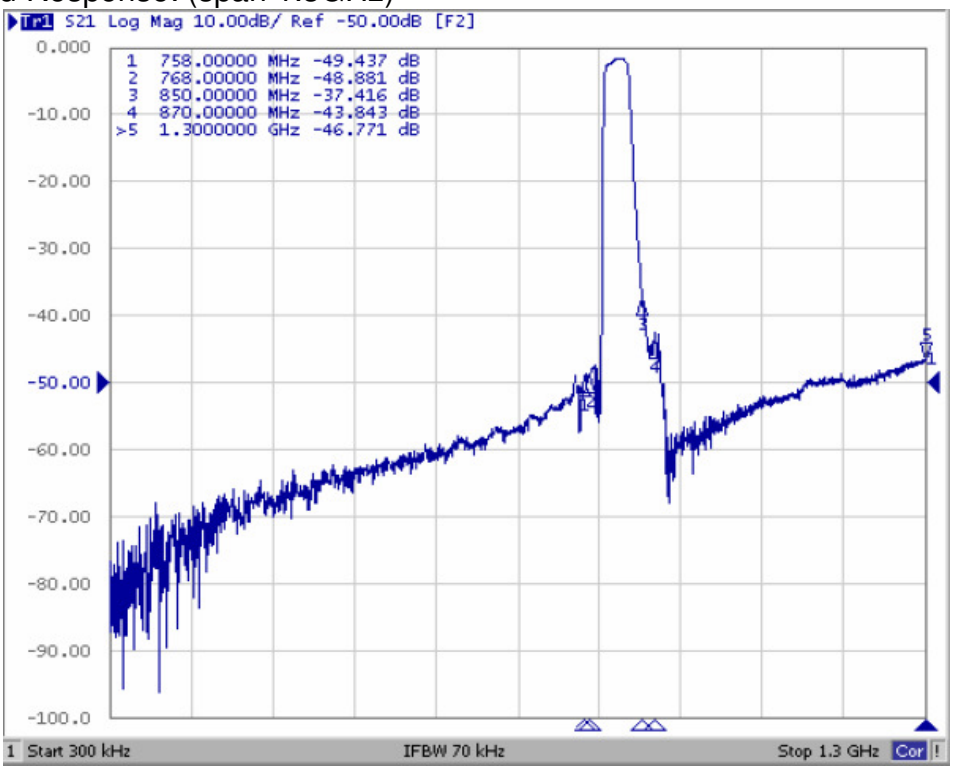
Item		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	809	-
Max. Insertion Loss (794 ~ 824 MHz)	**IL**	dB	-	2.9	4.5
Passband Ripple (794 ~ 824 MHz)		dB	-	1.4	3.0
Source Impedance (single ended)		Ω	-	50	-
Load Impedance (single ended)		Ω	-	50	-
Attenuation					
D.C ~ 758 MHz		dB	45	48	-
758 ~ 768 MHz		dB	35	48	-
850 ~ 880 MHz		dB	30	37	-
880 ~ 1300 MHz		dB	45	48	-
Package size		mm	SMD 3.8x3.8		

C. MEASUREMENT CIRCUIT:

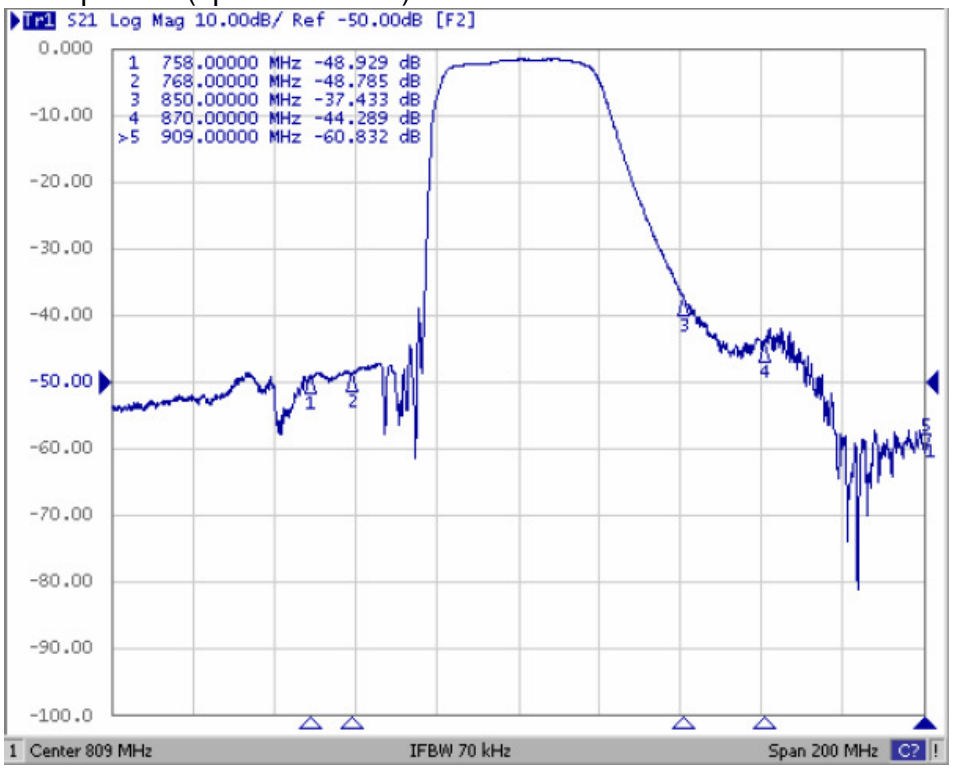


D. FREQUENCY CHARATERISTIC:

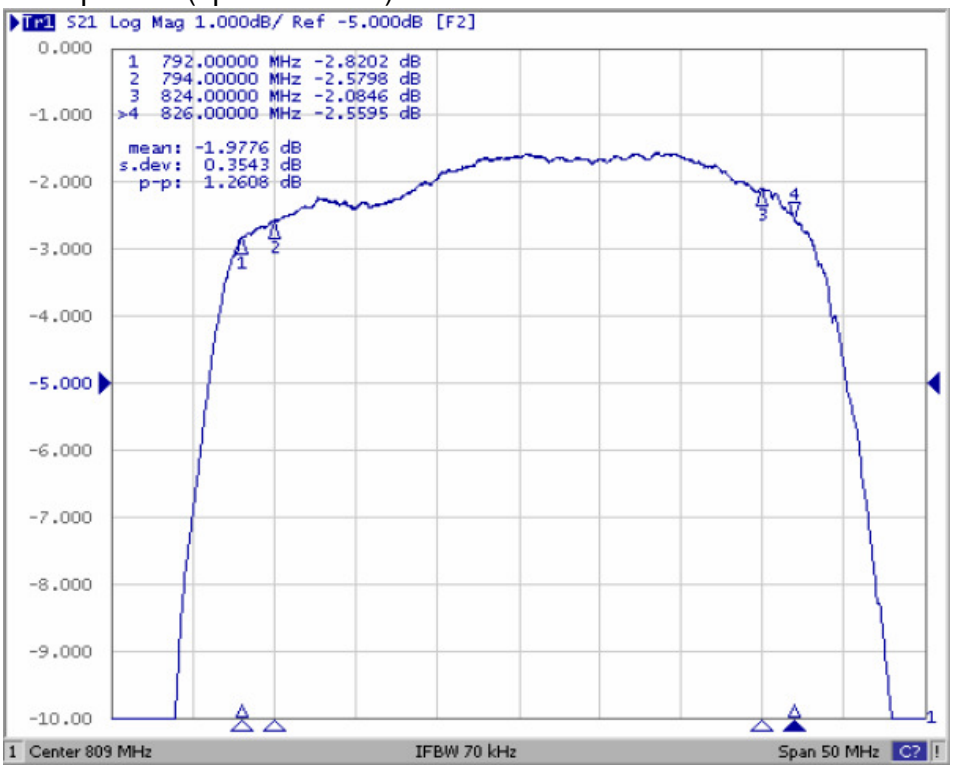
(1) Wide band Response: (span 1.3GHz)



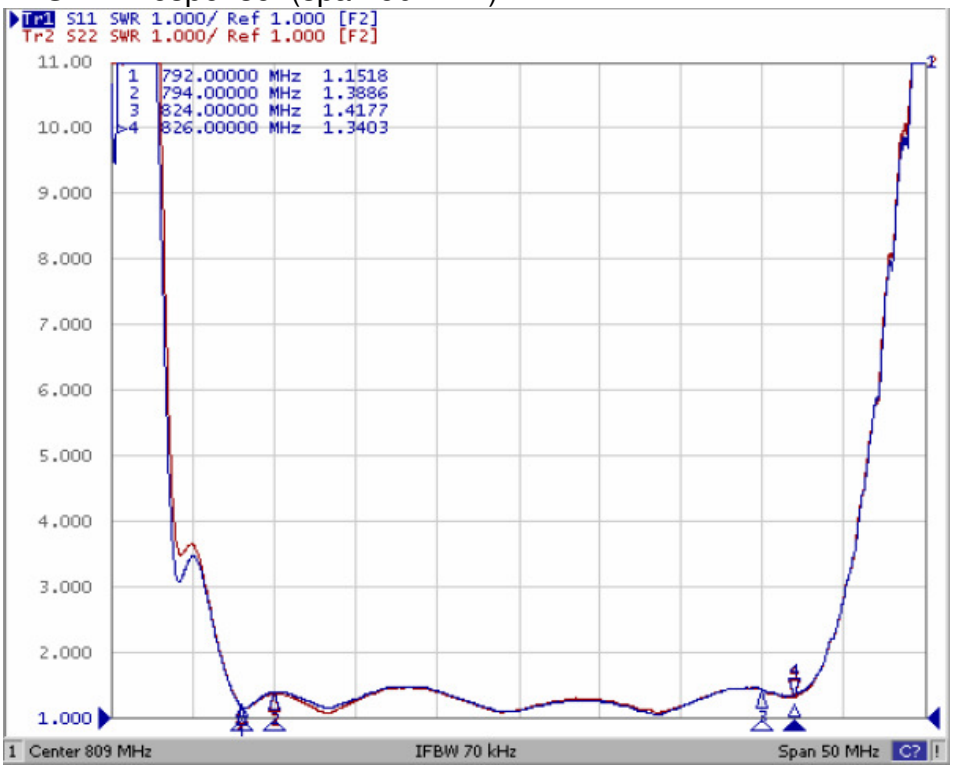
(2) Pass band Response: (span 200 MHz)



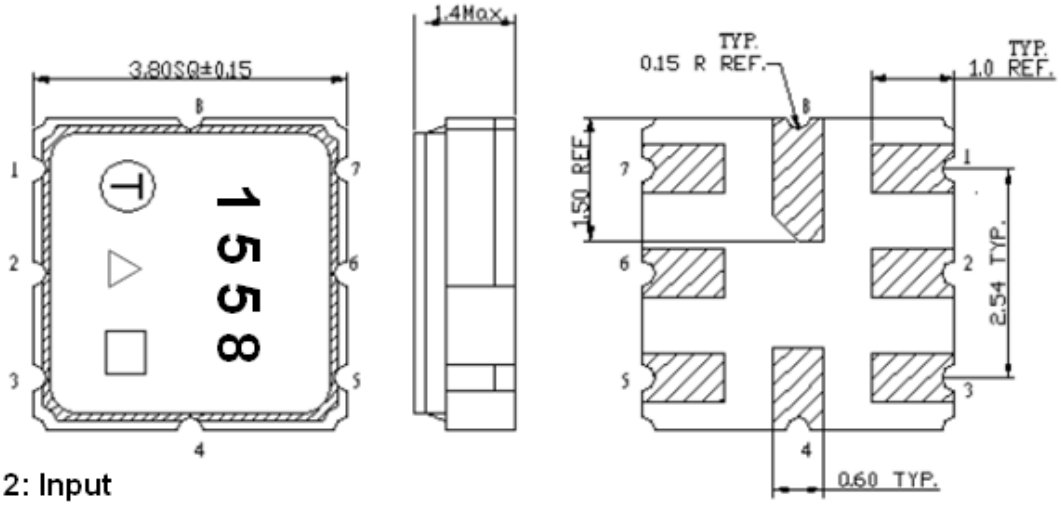
(3) Pass band Response: (span 50 MHz)



(4) S11 & S22 VSWR Response: (span 50 MHz)



E.OUTLINE DRAWING:



2: Input

6: Output

1, 3, 4, 5, 7, 8: Ground

△ : Year Code

□ : Date Code

Unit: mm

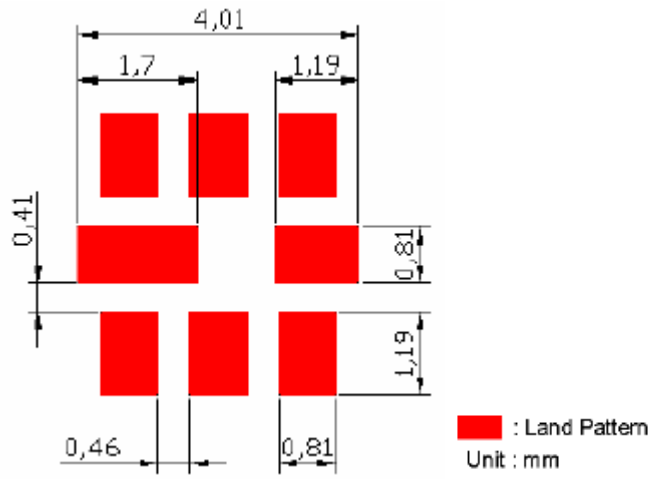
△ Product Year Code

Year	2019 2021 2023 2025	2020 2022 2024 2026
Product Code	A	a

Date Code Table:

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

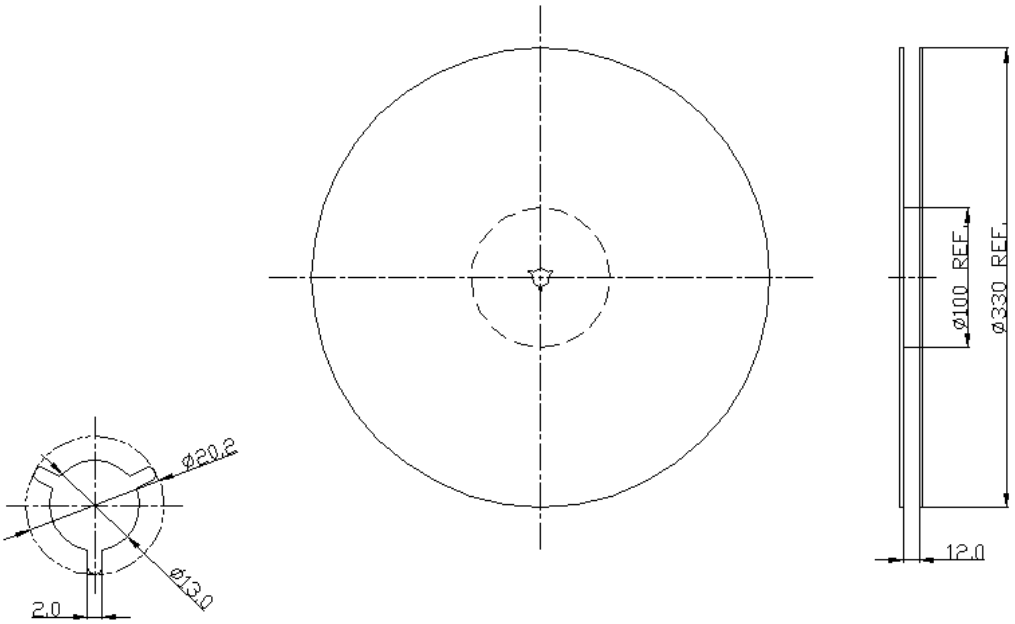
F. PCB Footprint:



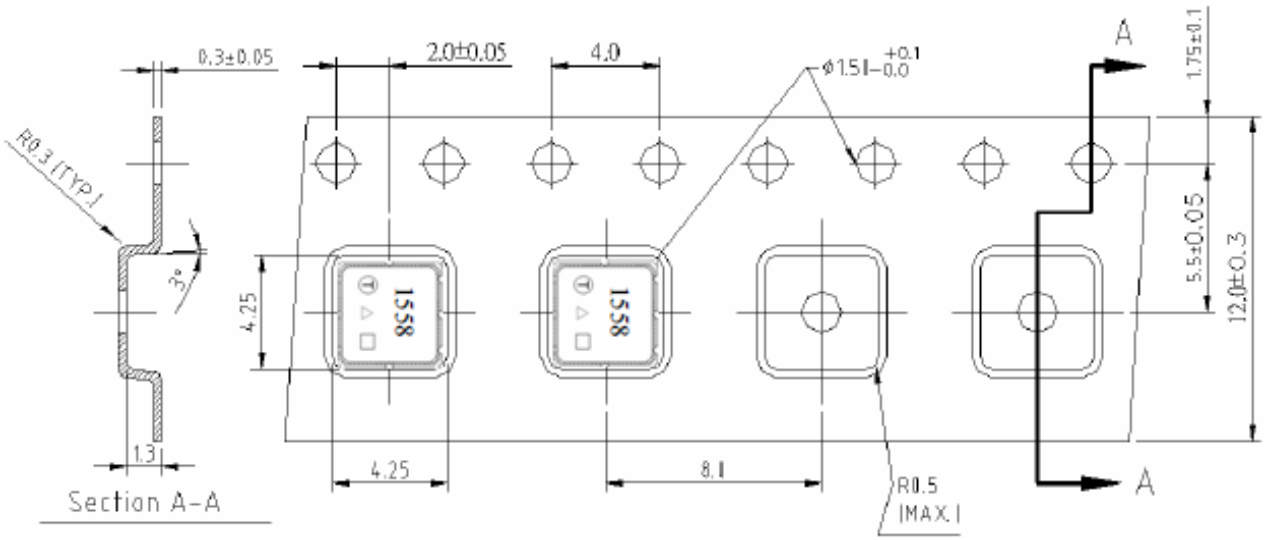
G. <u>PACKING</u>: (Ref: WI-75M03)

1. REEL DIMENSION

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



3. TAPE DIMENSION



Direction of Feed

H. <u>STORAGE CONDITIONS</u>:

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