



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 622.08MHz 3MHzBW SMD 3.8mm x 3.8mm SAW IF Filter

TST Parts No.: TA0911A

Customer Parts No.: _____

Customer signature required

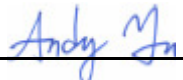
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Andy Yu 

Date: _____ 04 / 17 / 2020

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 622.08 MHz

MODEL NO.: TA0911A

REV. NO : 2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level1 (MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Singled to Singled operation

Terminating source impedance : $Z_s = 50 \Omega$

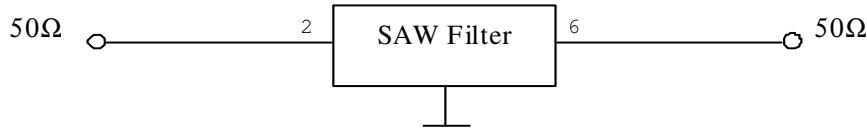
Terminating load impedance : $Z_s = 50 \Omega$

Item	Unit	Min.	Typ.	Max.
Center frequency Fo	MHz	-	622.08	-
Insertion loss at Fo	dB	-	2.2	3.5
3 dB bandwidth	MHz	-	10.0	-
Ripple (620.58 ~ 623.58 MHz)	dB	-	0.22	1.0
Attenuation (Reference level from 0 dB)				
10 ~ 600 MHz	dB	40	50.6	-
600 ~ 610 MHz	dB	8	39.1	-
640 ~ 644 MHz	dB	35	57.0	-
644 ~ 700 MHz	dB	40	54.3	-
Temperature Coefficient	Ppm/°C	-	-36	-

C. MEASUREMENT CIRCUIT:

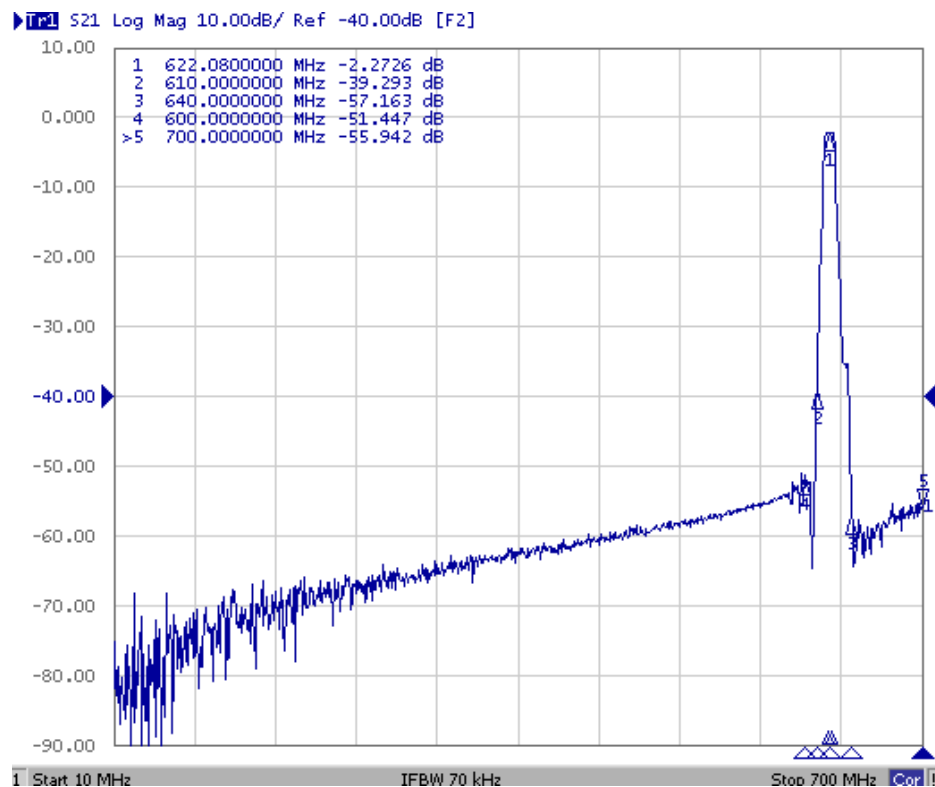
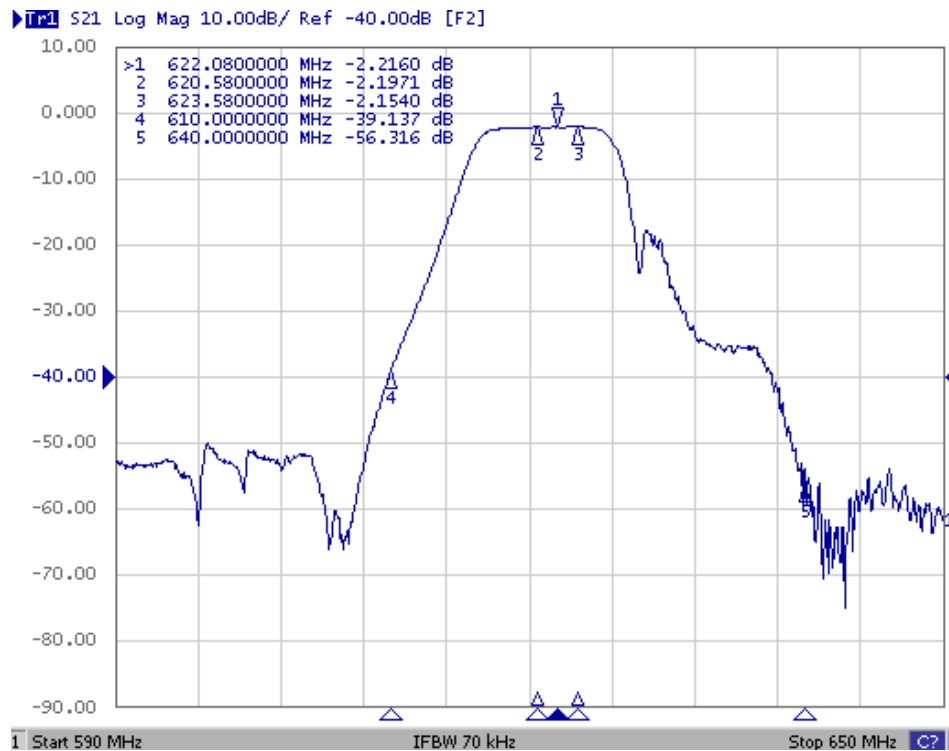
50 Ohm Test circuit (single-ended / single-ended)

HP Network analyzer



C. FREQUENCY CHARACTERISTICS:

Transfer function



E. ELECTRICAL CHARACTERISTICS:

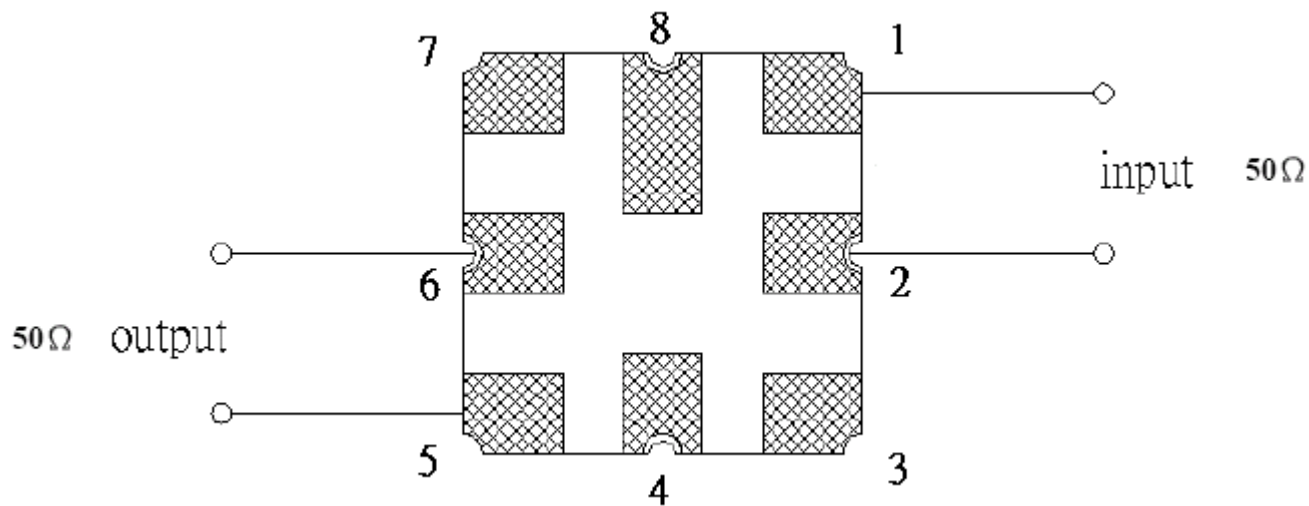
Balanced to Balanced operation

Terminating source impedance : $Z_s = 50\ \Omega$

Terminating load impedance : $Z_s = 50\ \Omega$

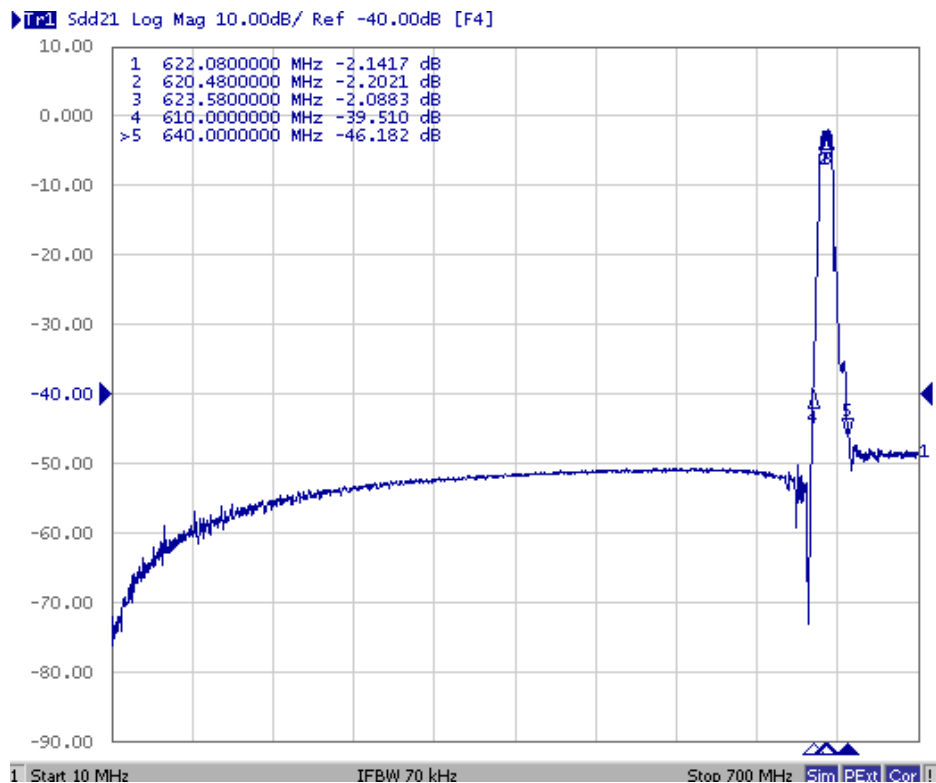
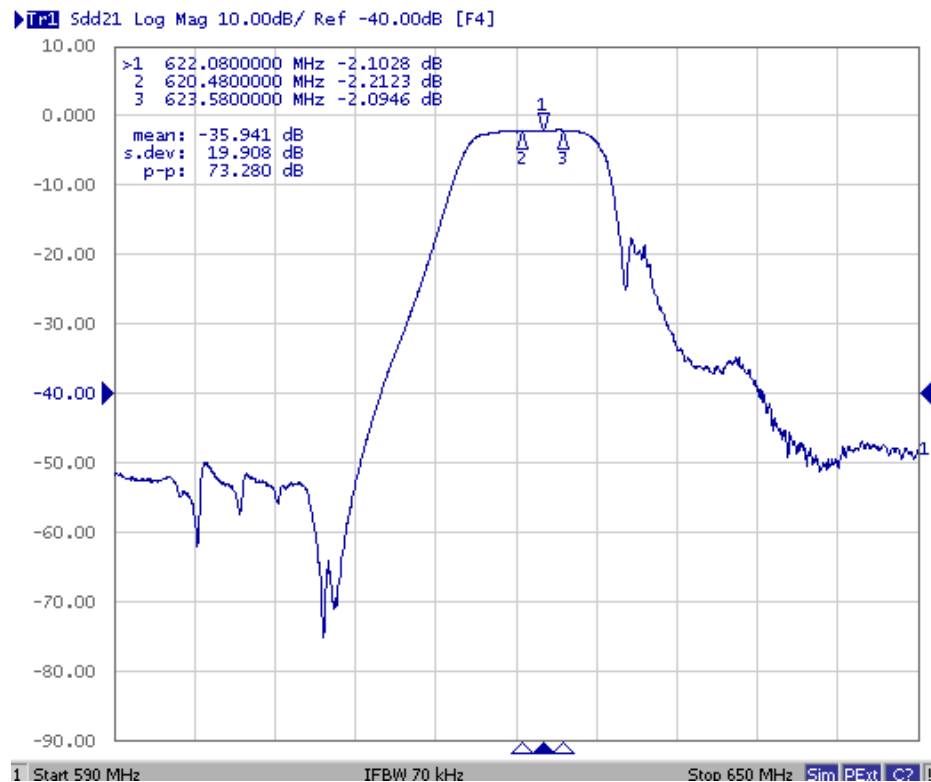
Item	Unit	Min.	Typ.	Max.
Center frequency Fo	MHz	-	622.08	-
Insertion loss at Fo IL	dB	-	2.2	3.5
3 dB bandwidth	MHz	-	10	-
Ripple (620.58 ~ 623.58 MHz)	dB	-	0.2	1.0
Attenuation (Reference level from 0 dB)				
10 ~ 600 MHz	dB	40	50.1	-
600 ~ 610 MHz	dB	8	39.4	-
640 ~ 644 MHz	dB	32	46.1	-
644 ~ 700 MHz	dB	38	46.8	-
Temperature Coefficient	Ppm/°C	-	-36	-

F. MEASUREMENT CIRCUIT:

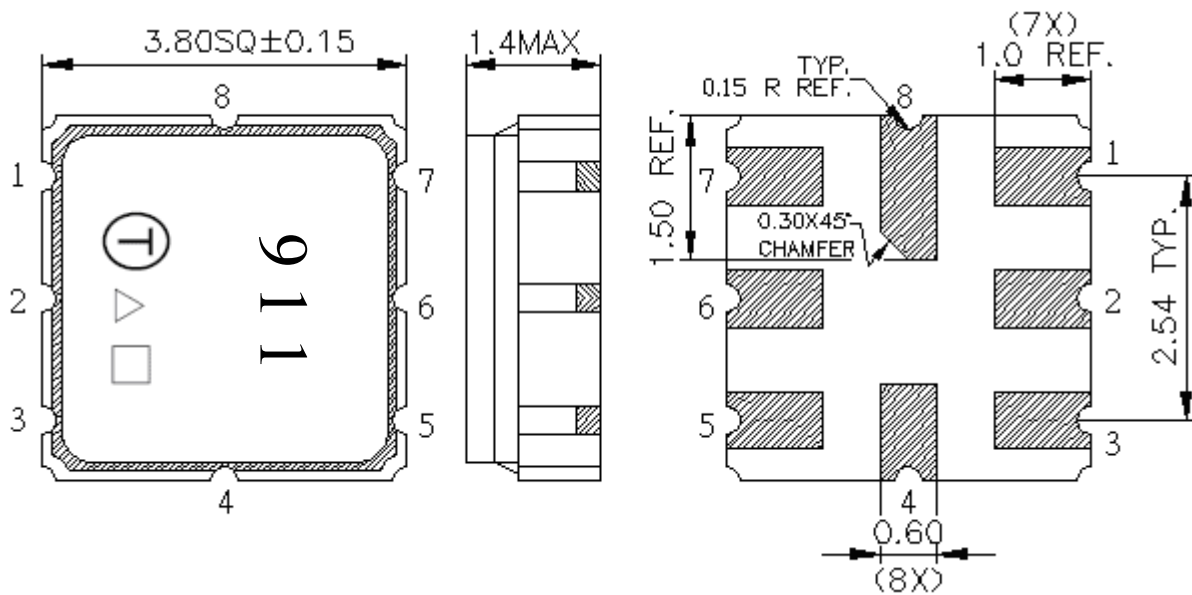


G. FREQUENCY CHARACTERISTICS:

Transfer function



H.OUTLINE DRAWING:



#2: Input

#1: Input Ground

#6: Output

#5: Output Ground

Others: Ground

□: Week Code

△: Product / Year Code

Unit: mm

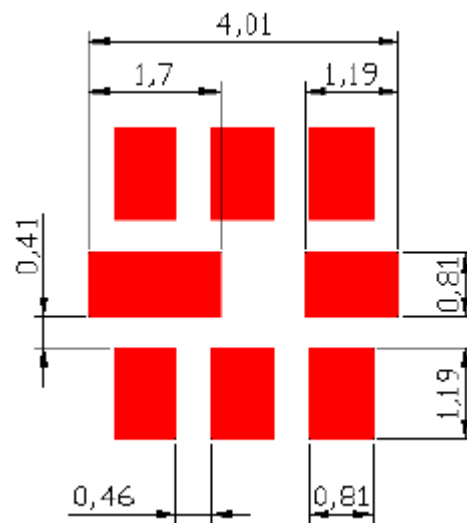
Product / Year Code (2year cycle)

Year	2019 2021	2020 2022
Product Code	A	a

Week Code Table

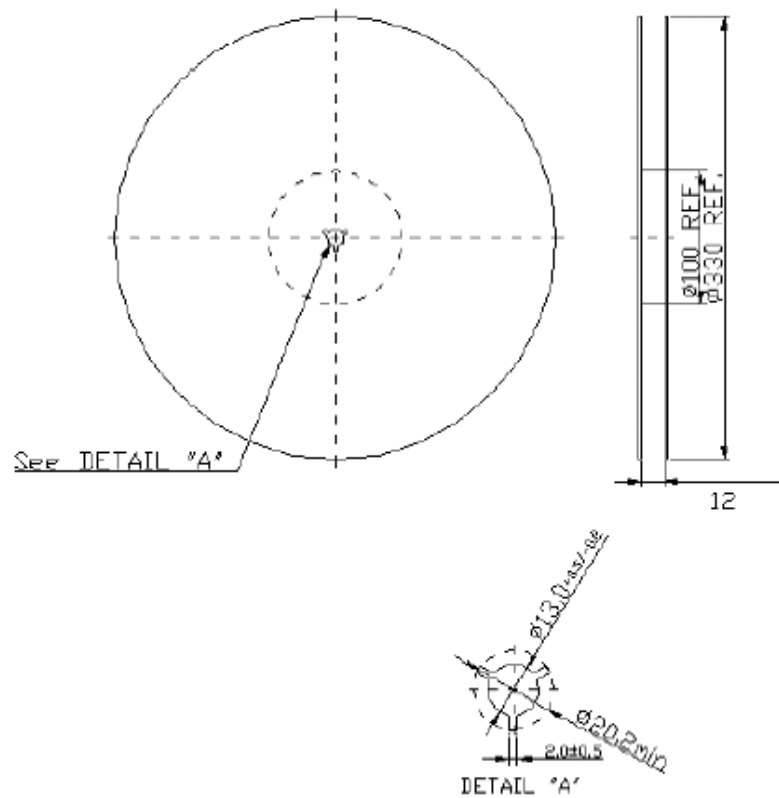
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

I. PCB FOOTPRINT:

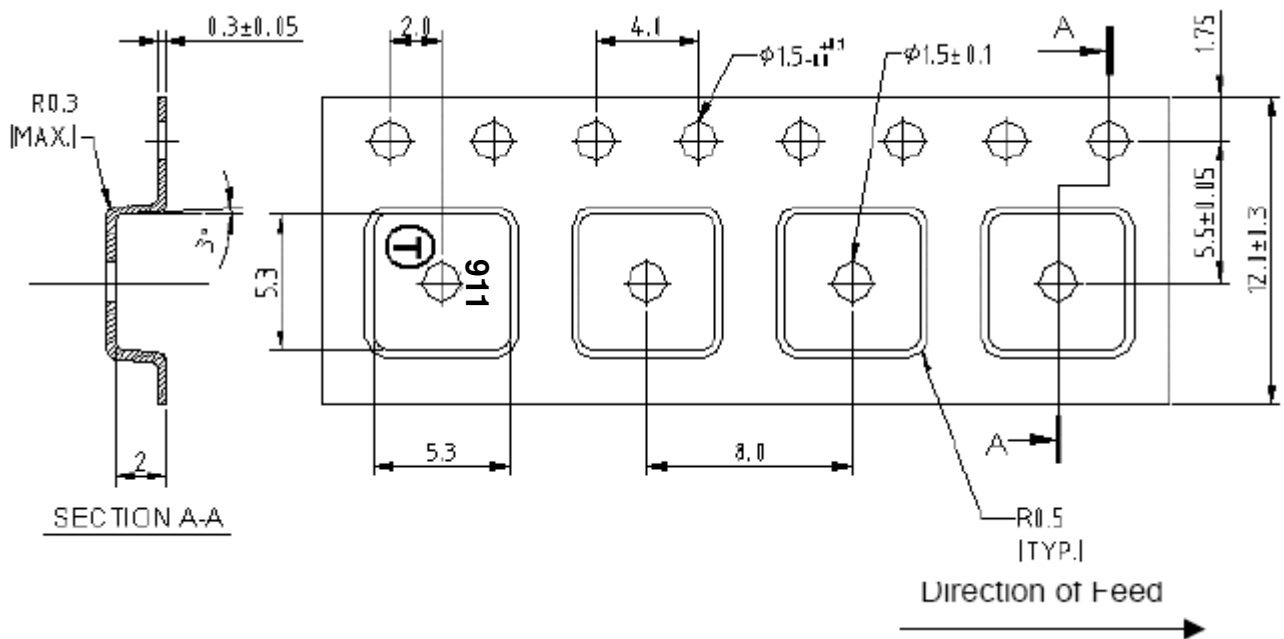


J. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

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

