



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW RF Filter 748 MHz (package 3.8mm x 3.8 mm)

TST Parts No.: TA1100A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/09/12

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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RF SAW Filter 748 MHz

MODEL NO.:TA1100A

REV. NO.:2.0

A. MAXIMUM RATING:

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



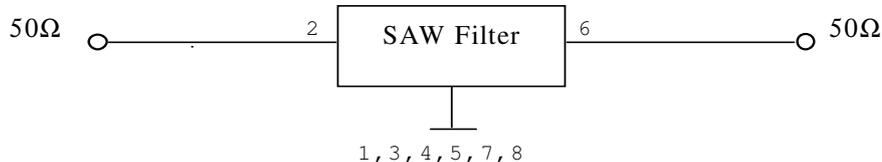
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typical	Max.
Center Frequency Fc	MHz	-	748	-
Min. Insertion Loss	dB	-	3.2	4.0
Amplitude Ripple (728 ~ 768 MHz)	dB	-	1.2	2.0
I/O Return Loss (728 ~ 768 MHz)	dB	-	6.7	-
Group Delay Ripple (728 ~ 768 MHz)	ns	-	8.0	40
Phase Linearity (728 ~ 768 MHz)	°rms	-	2.8	-
Attenuation (Reference level from 0 dB)				
100 ~ 658 MHz	dB	38	45	-
658 ~ 703 MHz	dB	28	35	-
793 ~ 838 MHz	dB	17	26	-
838 ~ 2000 MHz	dB	20	25	-
Temperature Coefficient of Frequency	ppm/K	-	-80	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. FREQUENCY CHARACTERISTICS:

(1) Wide band Response:(span 2000MHz)

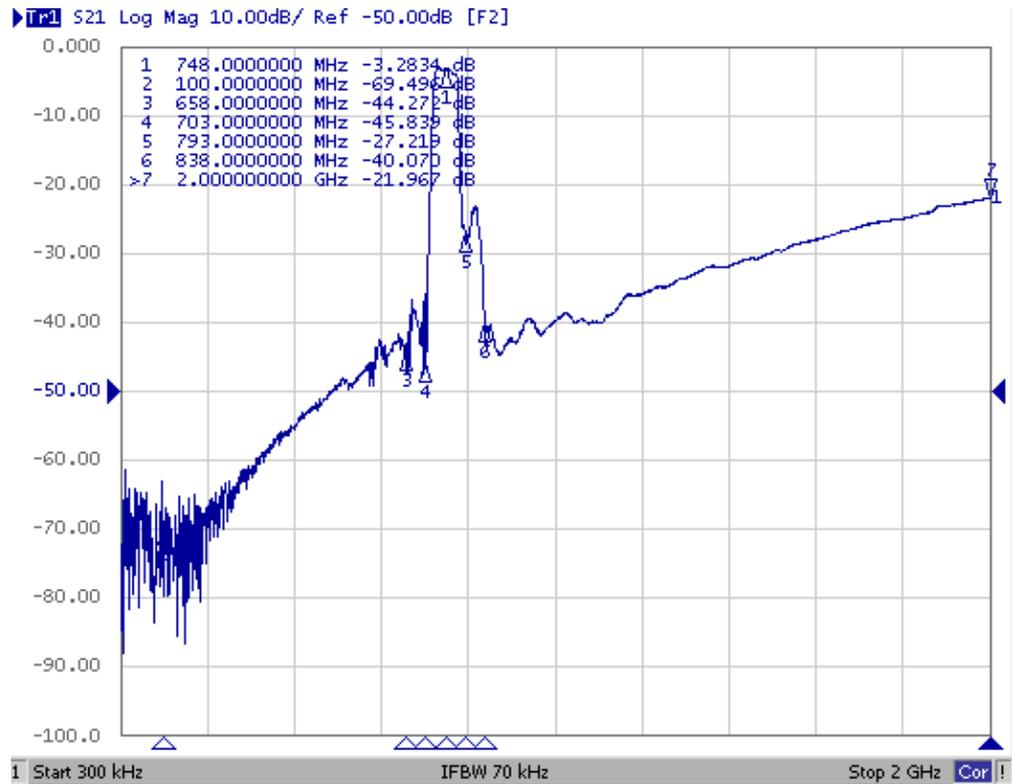


Fig1. Horizontal: 200MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

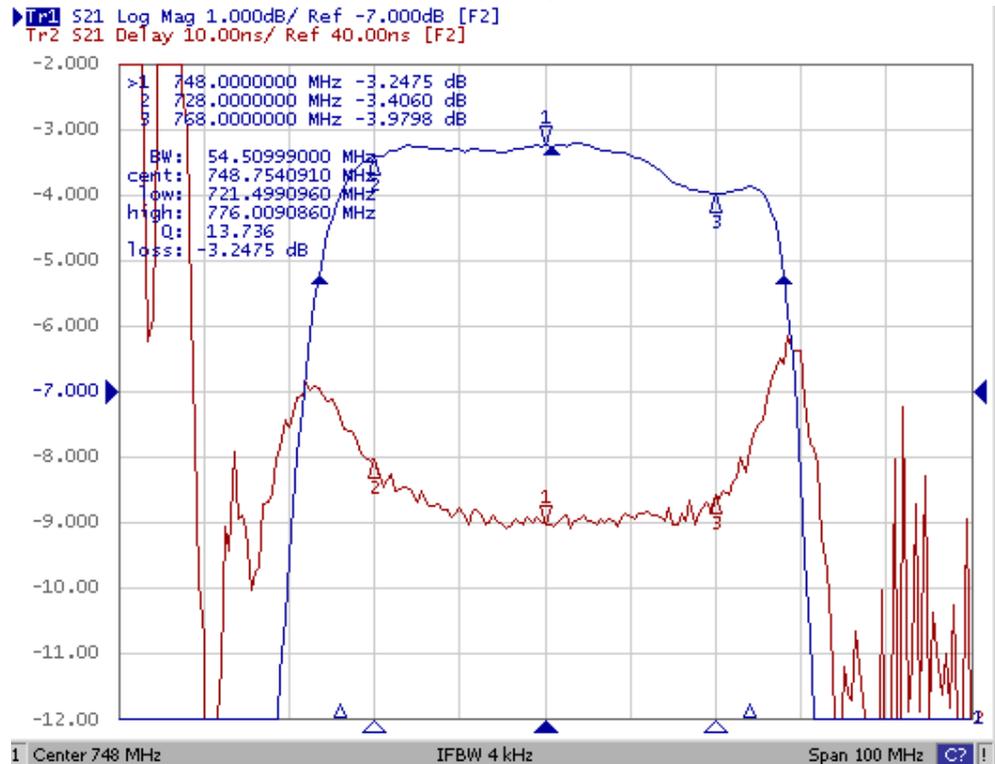


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
Vertical: 10ns/Div

(3) Narrow band response(sapn 400MHz):

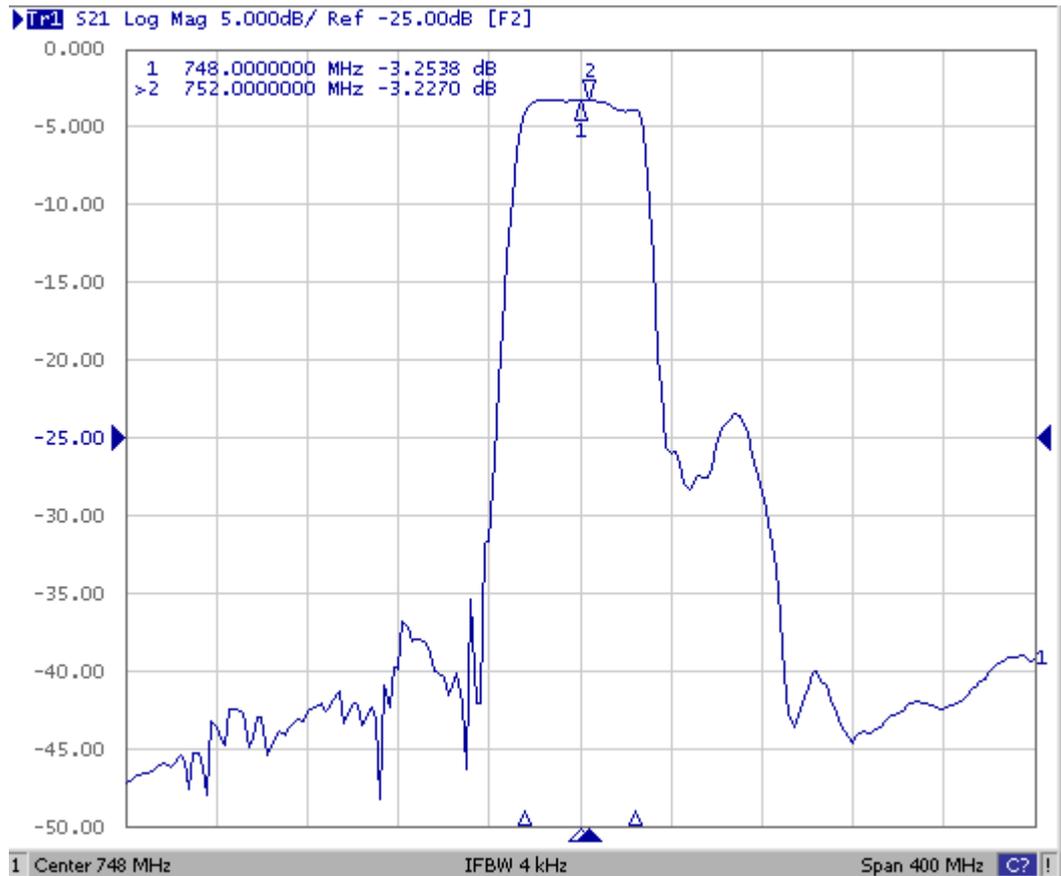
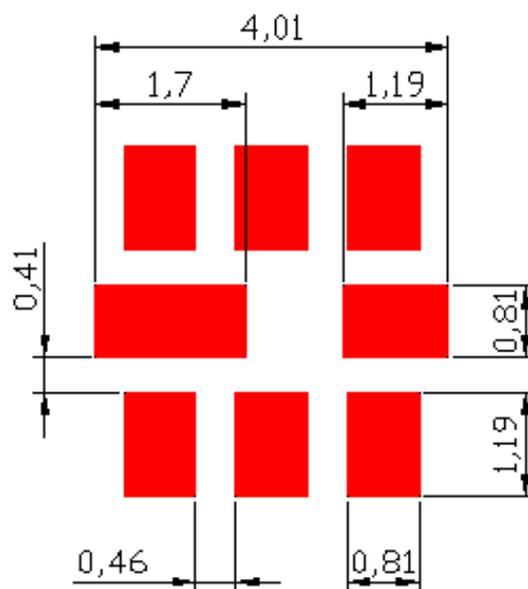
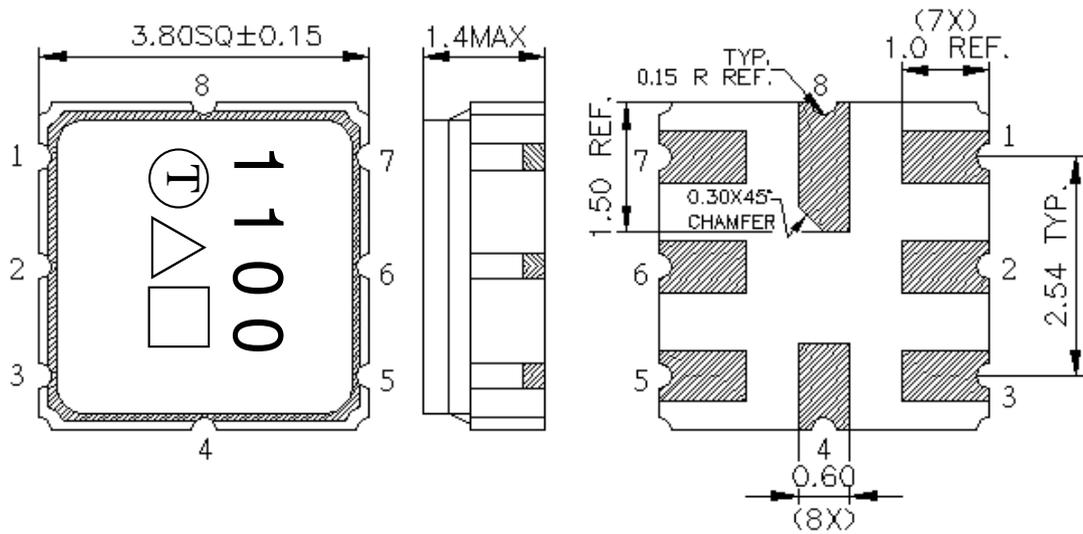


Fig3. Horizontal: 40MHz/Div Vertical: 5dB/Div

E. PCB FOOTPRINT:



F.OUTLINE DRAWING:



2: Input

6: Output

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

□ : Date Code (W01->A, W02->B,...W52->z)

△ : Product / Year Code

Unit: mm

Product / Year Code- 2year cycle

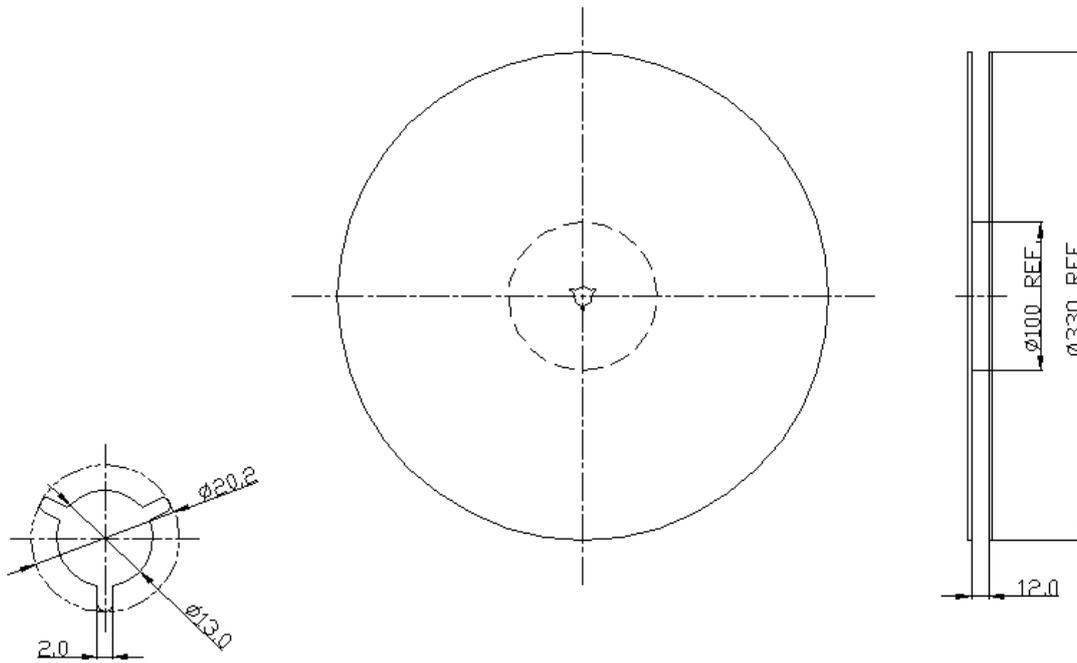
Year	2019 2021	2020 2022
Product Code	A	a

Week Code Table

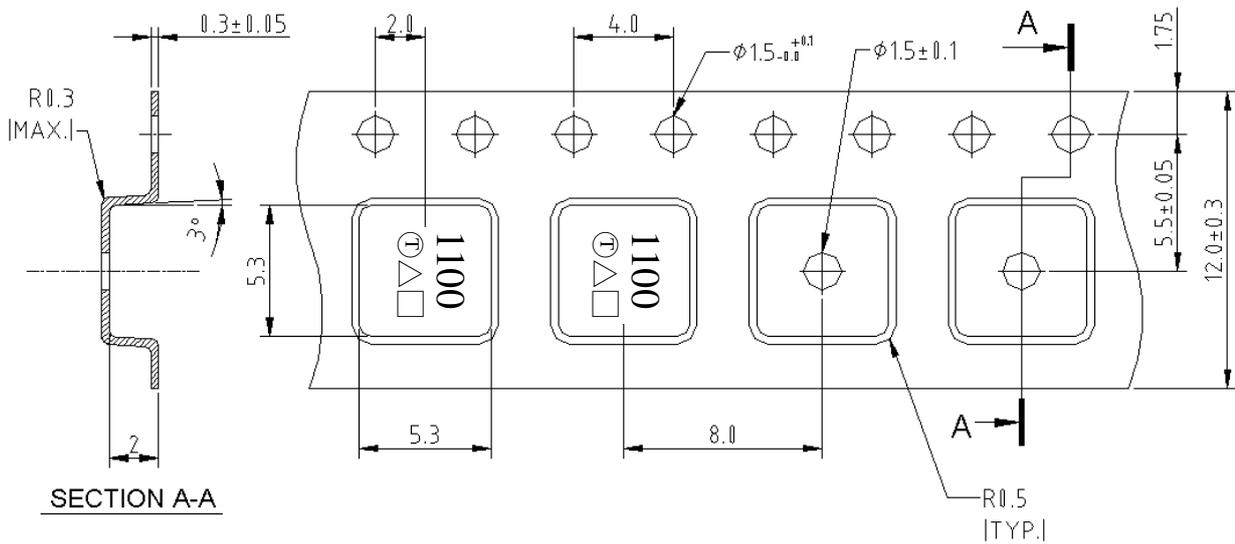
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

G. PACKING:

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



2. TAPE DIMENSION



Direction of Feed

H. 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.

