

# 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)

RoHS Compliant  
Lead free  
Lead-free soldering

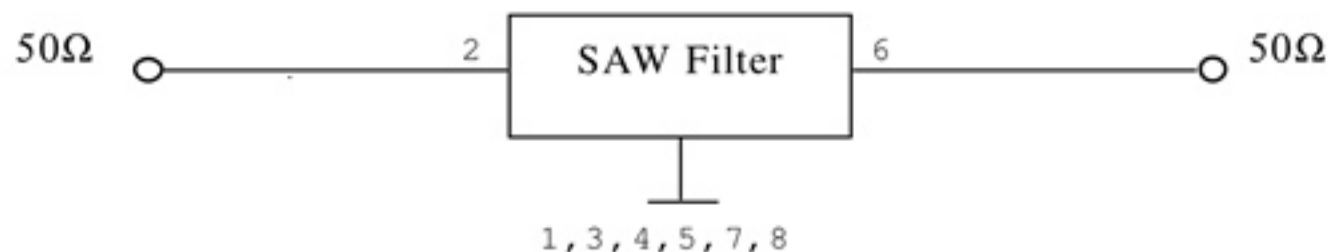
Electrostatic Sensitive Device

## B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typical	Max.
Center Frequency <b>Fc</b>	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)

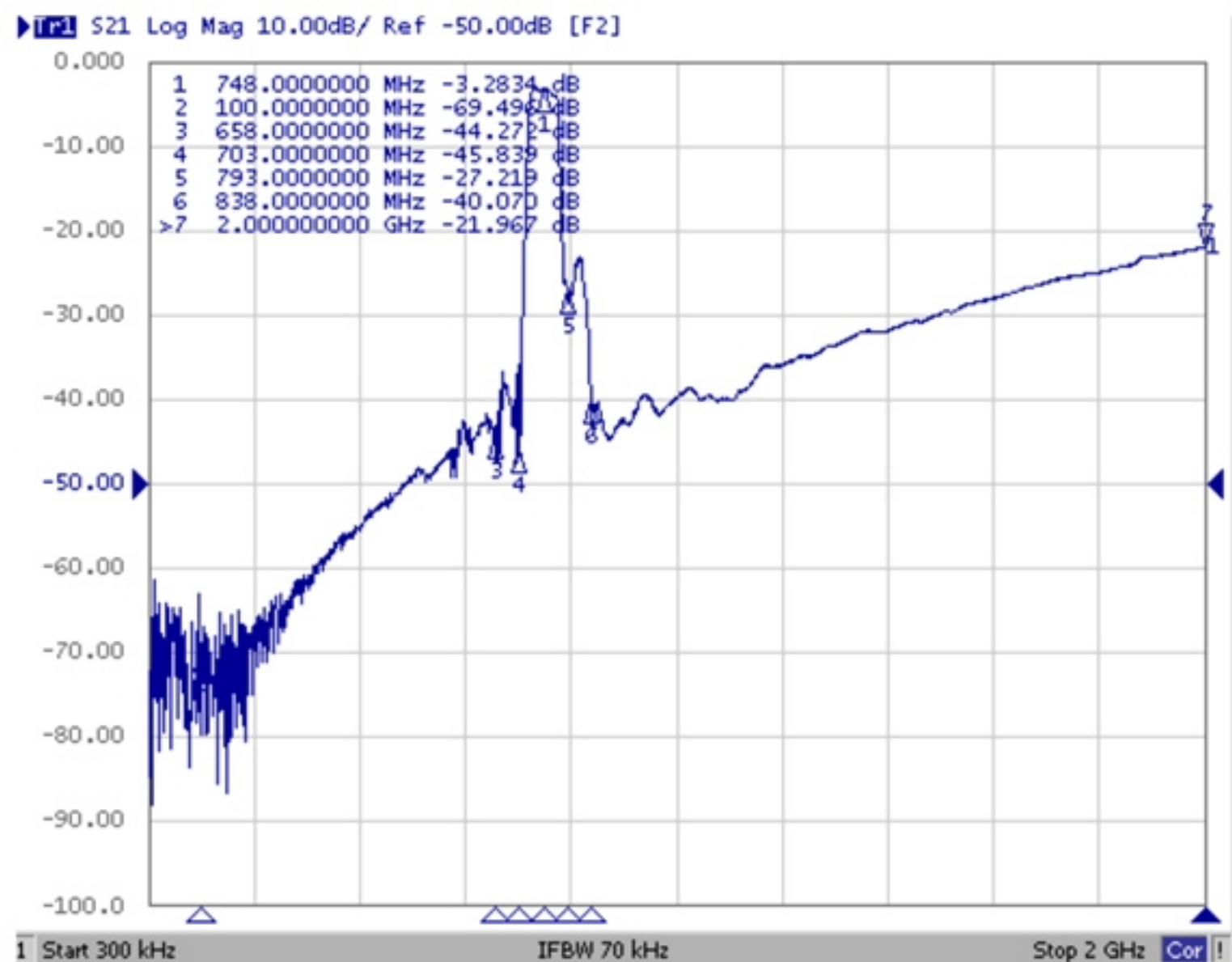


Fig1. Horizontal: 200MHz/Div Vertical: 10dB/Div

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

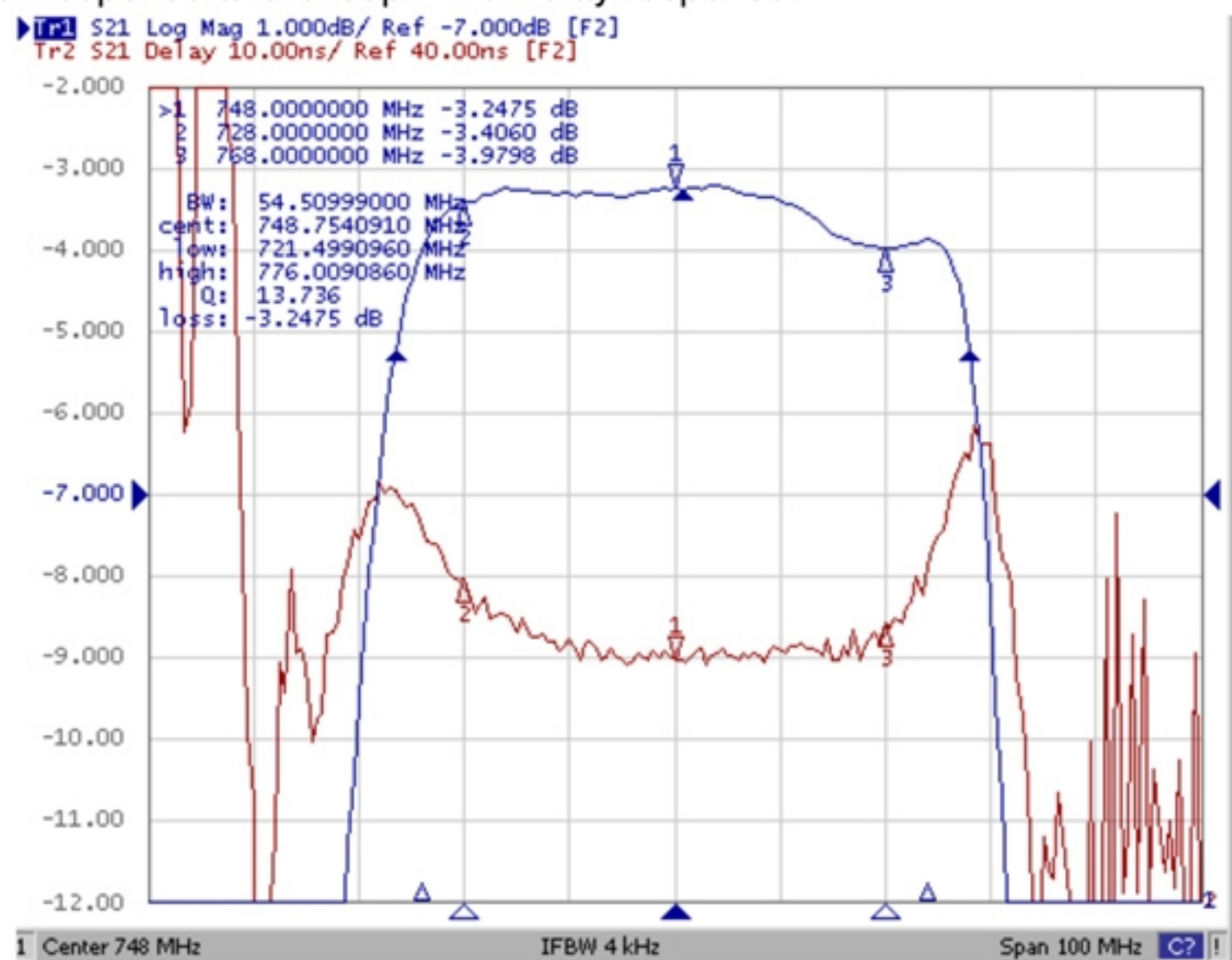


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div

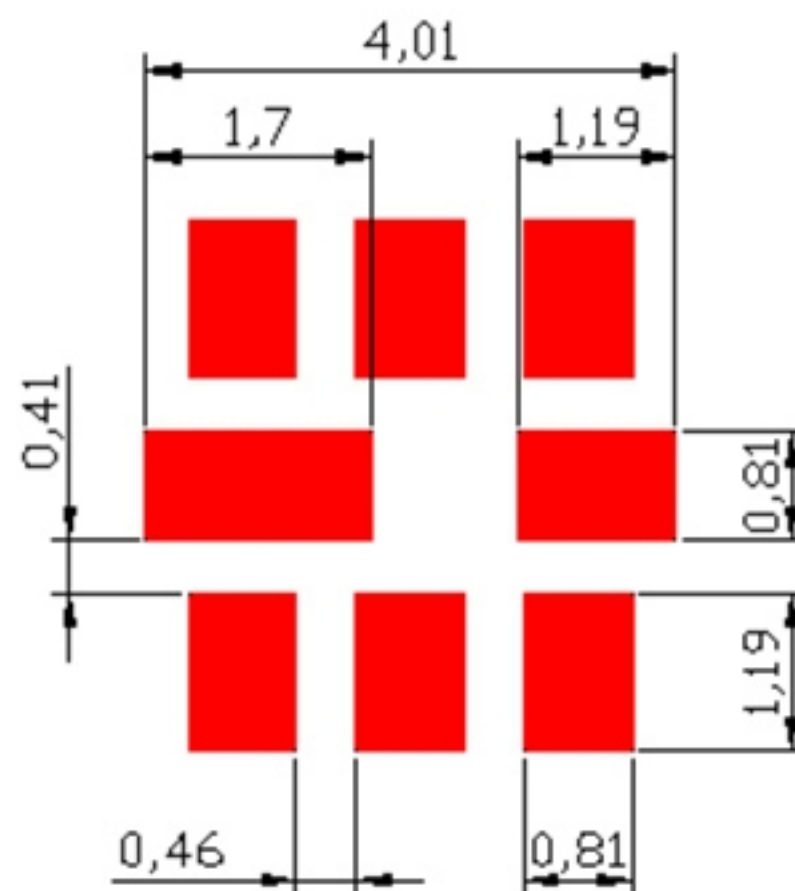
Vertical: 10ns/Div

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

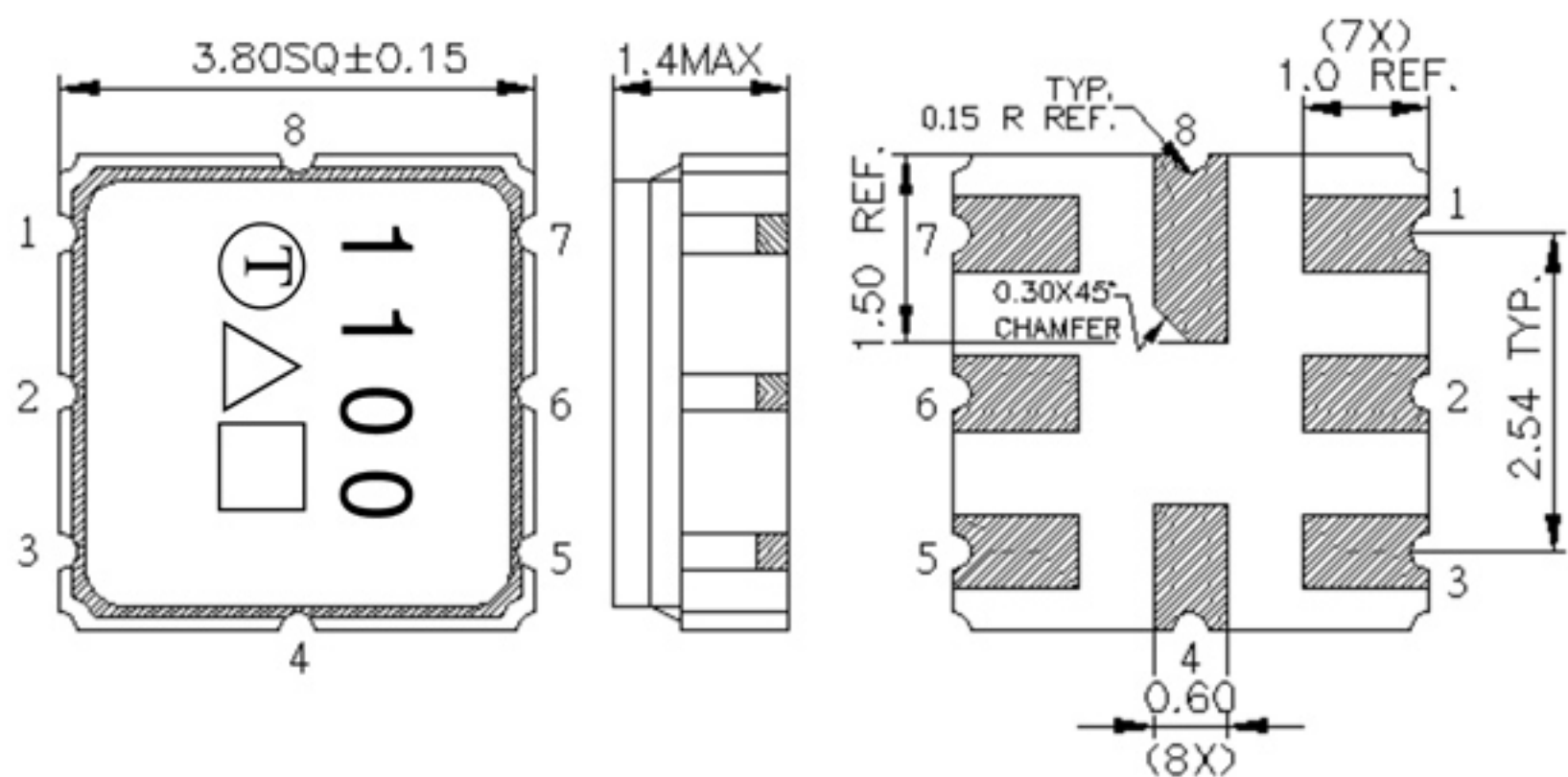


Fig3. Horizontal: 40MHz/Div Vertical: 5dB/Div

## 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

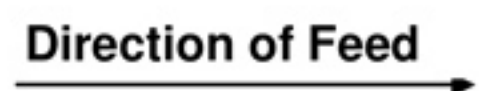
Product / Year Code- 2year cycle

Year	2019	2020
	2021	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

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





## 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.

