



TAI-SAW TECHNOLOGY CO., LTD.

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

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Product Specifications Approval Sheet

Product Name: SAW Filter 458.85 MHz (BW 0.8MHz) SMD 3.8X3.8 mm

TST Parts No.: TA1975A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Sam Lin 

Approval by: _____ Bob Chau 

Date: _____ 2016/03/30

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 458.85MHz

MODEL NO.:TA1975A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

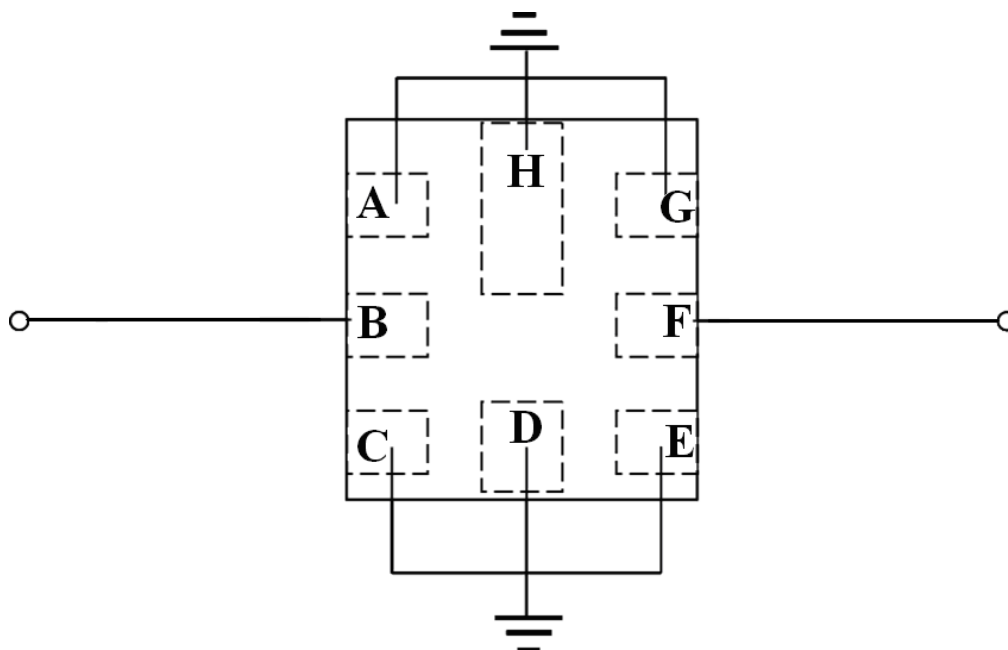
B. ELECTRICAL CHARACTERISTICS:

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

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

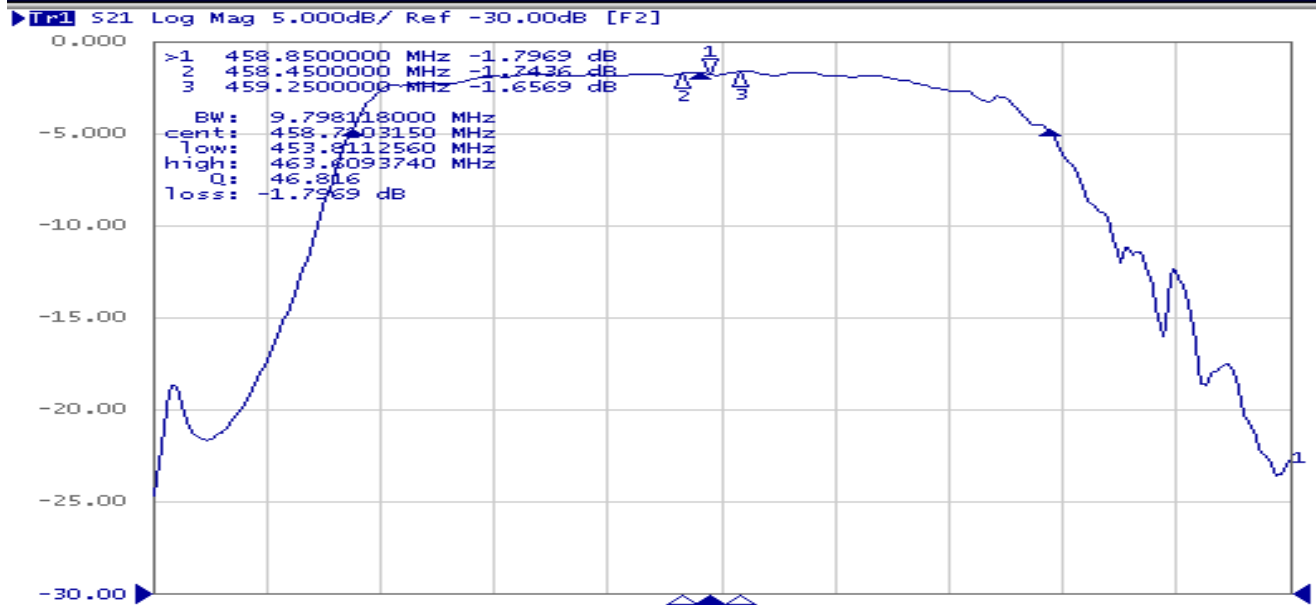
Item	Unit	Min	Type.	Max
Center frequency Fc	MHz	-	458.85	-
Insertion Loss (458.45~459.25 MHz) IL	dB	-	1.8	3.0
Amplitude Ripple (458.45~459.25 MHz)	dB	-	0.3	1.5
VSWR (458.45~459.25 MHz)	-	-	1.2	2.0
Attenuation (Reference level from 0 dB)				
50 ~ 440 MHz	dB	45	50	-
490 ~ 1000 MHz	dB	45	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

C. TEST CIRCUIT: (By Network Analyzer simulation)

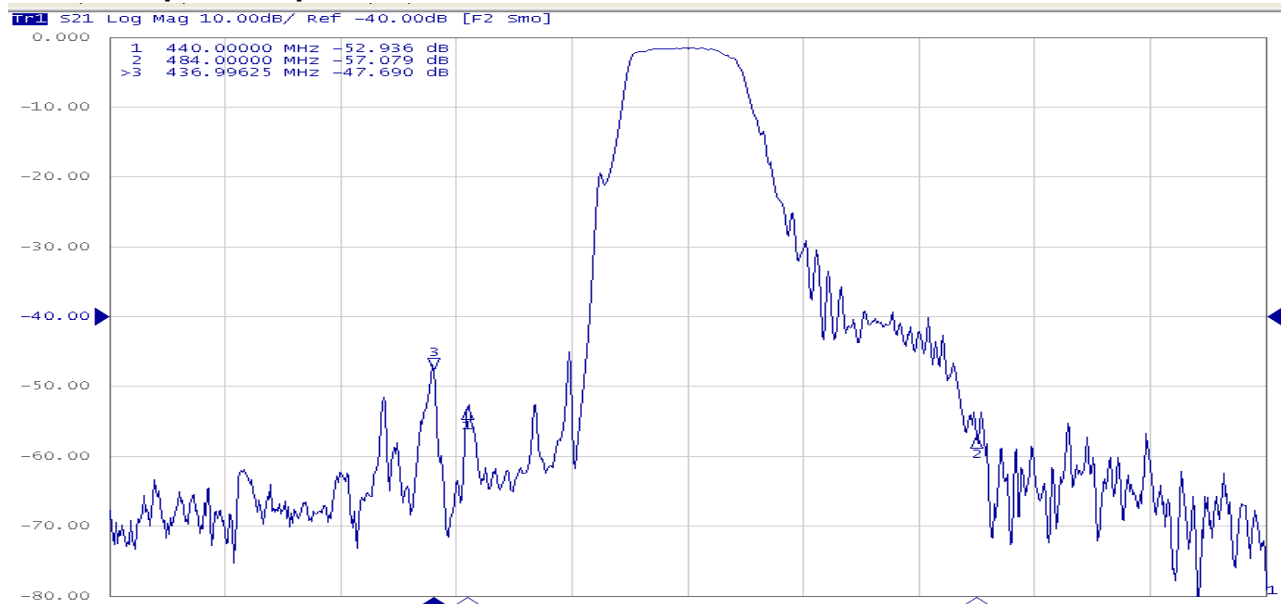


D. Frequency Characteristics:

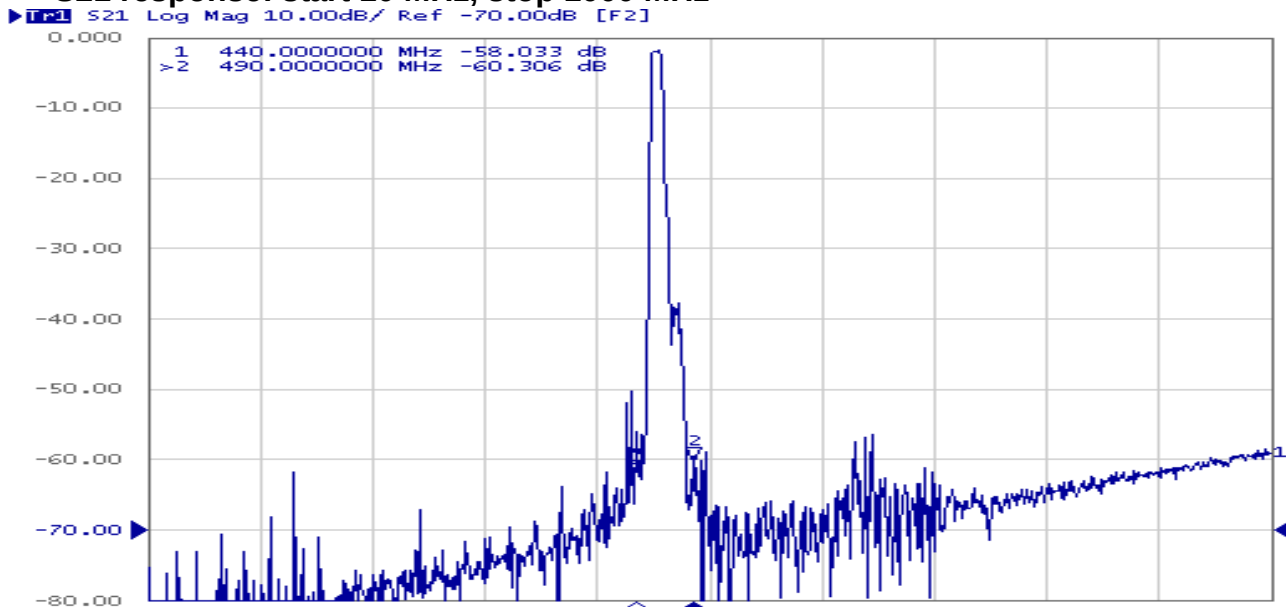
S21 response: center 459MHz, span 16 MHz



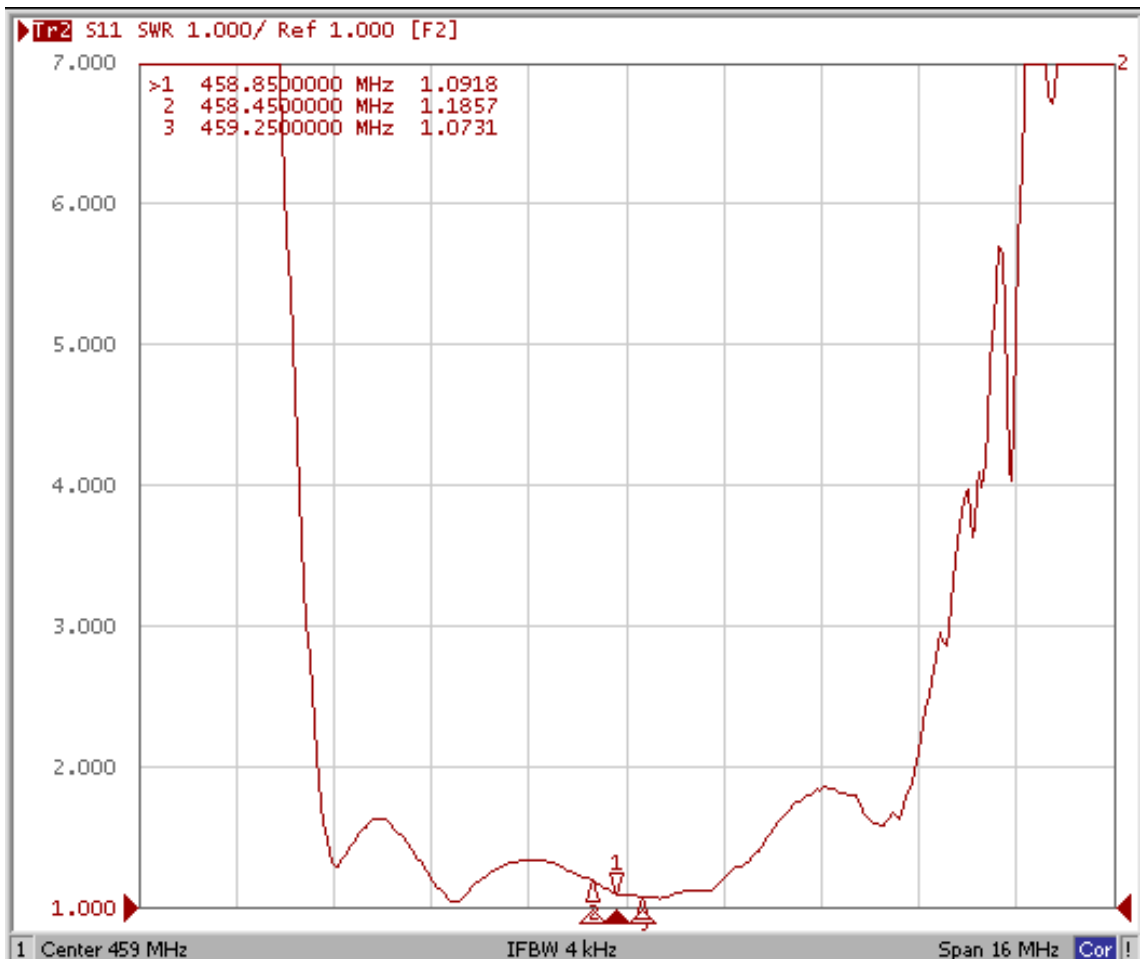
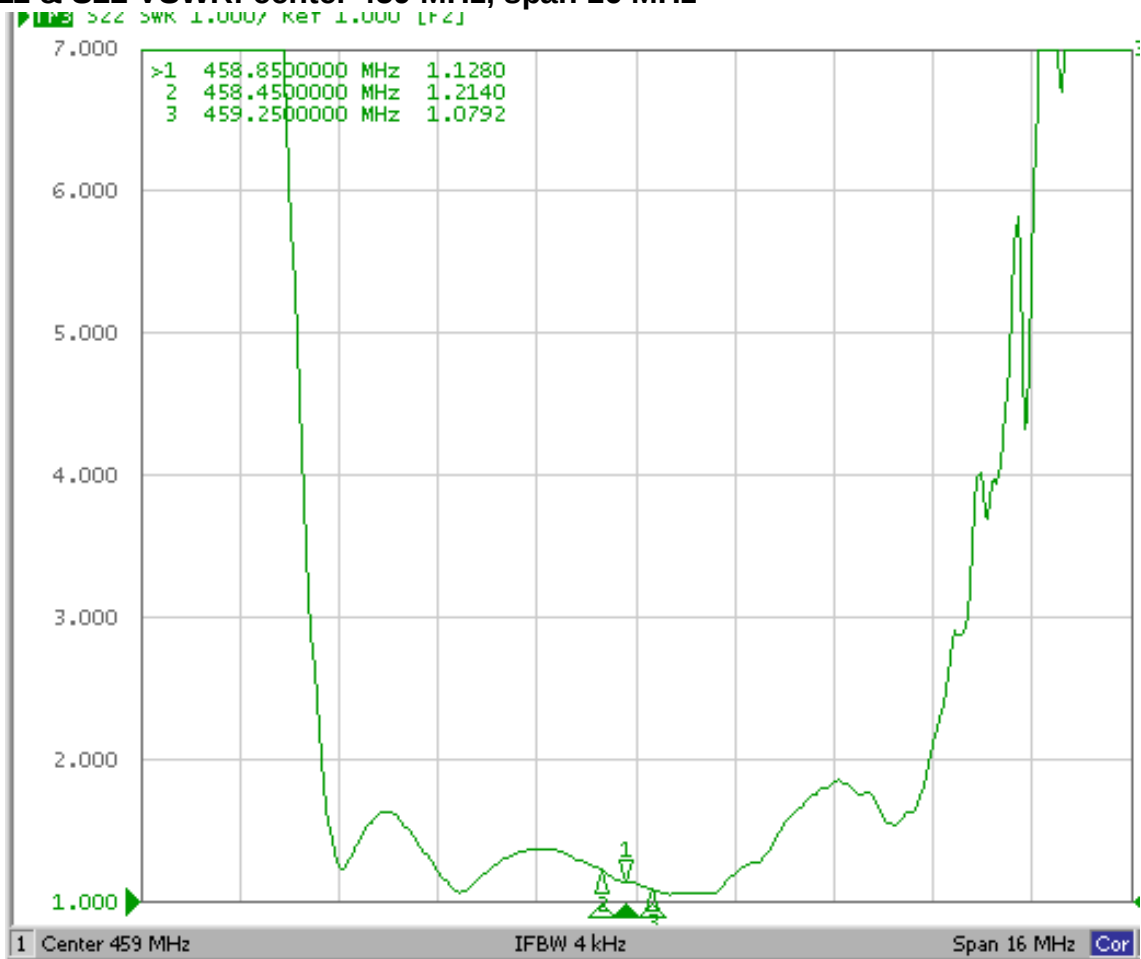
S21 response: span 100 MHz



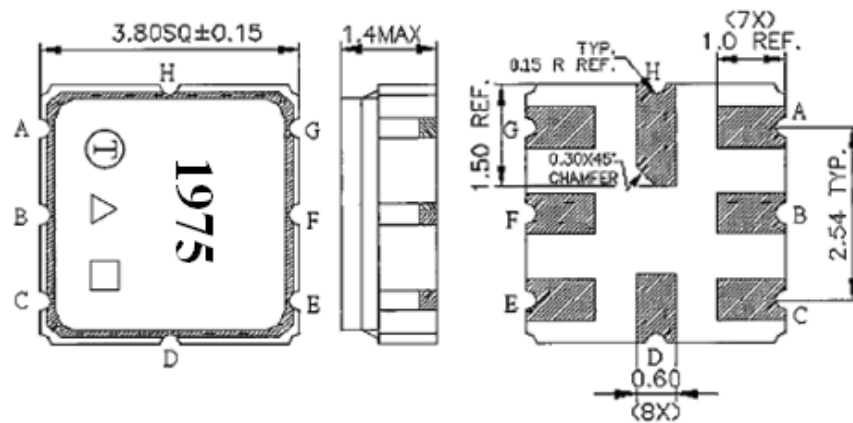
S21 response: start 10 MHz, stop 1000 MHz



S11 & S22 VSWR: center 459 MHz, span 16 MHz



E.OUTLINE DRAWING:



#B –Input

#F – Output

#A,C,D,E,G,H – Ground

☐ : Week Code

Unit : mm

△ : Product / Year Code

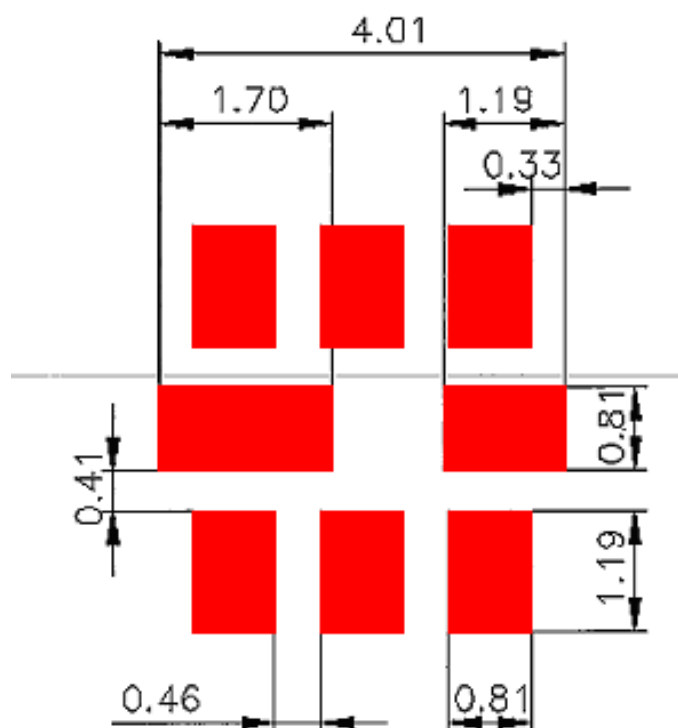
Product / Year Code

Year	2015 2017 2019	2016 2018 2020
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

F. PCB FOOTPRINT:



(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.

