



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 Description: SAW Filter 400 MHz SMD 3.8×3.8 mm (BW=4 MHz)

TST Part No.: TA1595B (This part is compliant with AEC-Q200)

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2017/07/07

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 400 MHz

MODEL NO.:TA1595B

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +125°C

RoHS Compliant
Lead free
Lead-free soldering

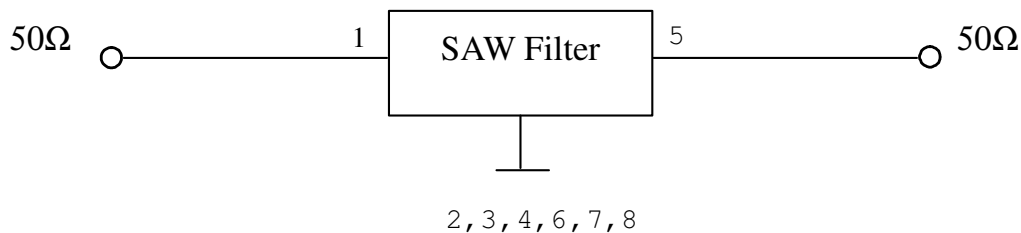
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

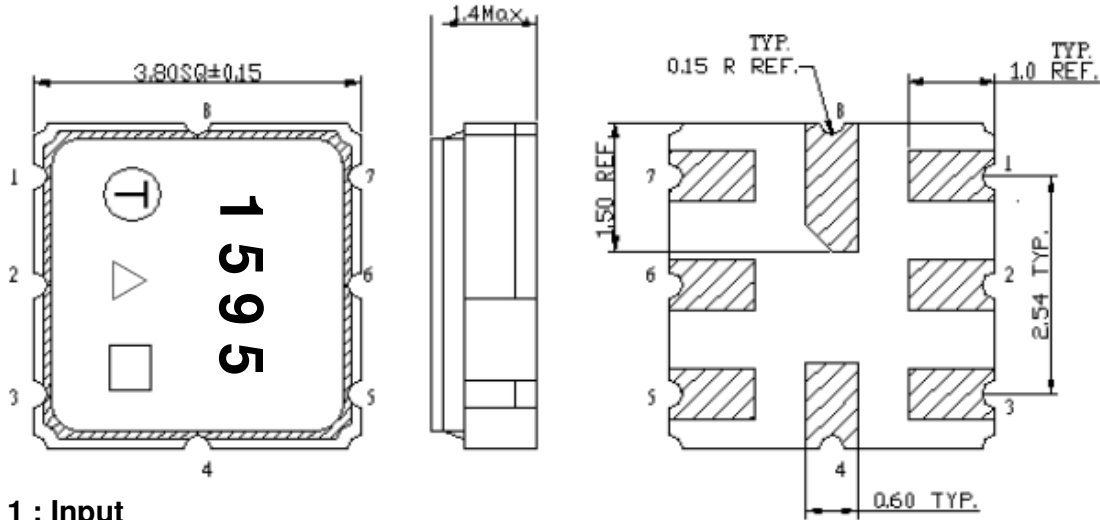
Item	Unit	Min.	Typ.	Max.
Center Frequency F_c	MHz	-	400	-
Insertion loss (398~402 MHz) IL	dB	-	2.0	4.5
Amplitude ripple (398~402 MHz)	dB	-	0.5	2.0
Return loss (399.5~400.5 MHz)	dB	9	12	-
Attenuation (Reference level from 0 dB)				
10 ~ 370 MHz	dB	45	55	-
430 ~ 1000 MHz	dB	40	44	-
Temperature coefficient of frequency	ppm/k	-	-36	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



1 : Input

5 : Output

2, 3, 4, 6, 7, 8 : Ground

△ : Year Code

□ : Date Code

Unit: mm

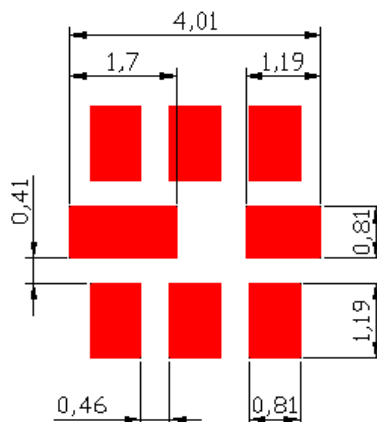
△ Product Year Code

Year	2011	2012
	2013	2014
	2015	2016
	2017	2018
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

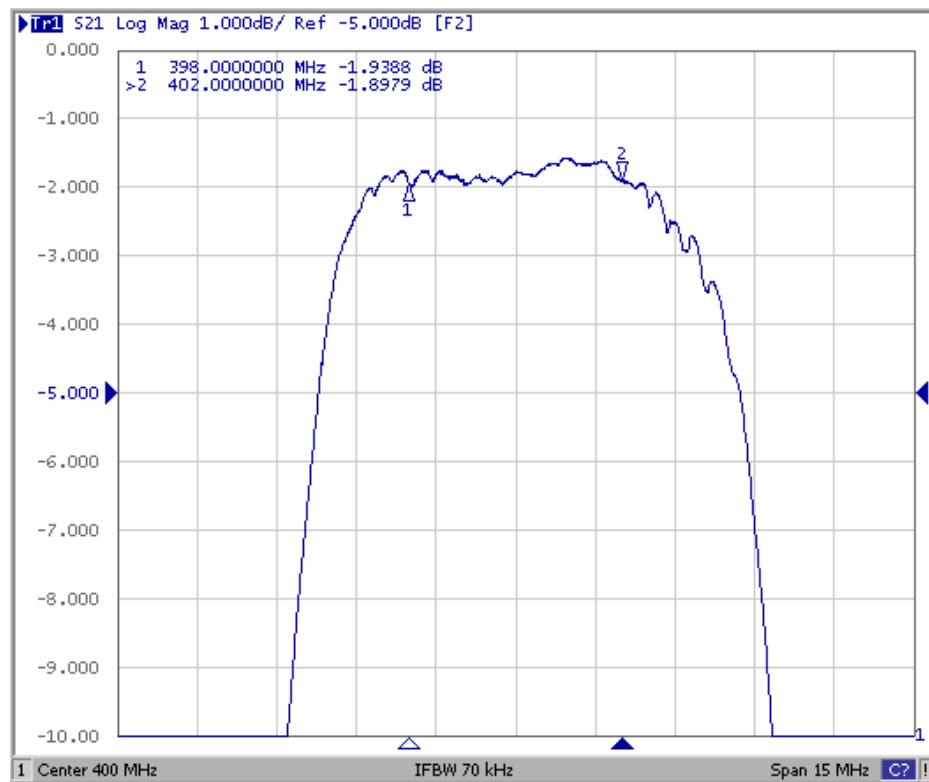
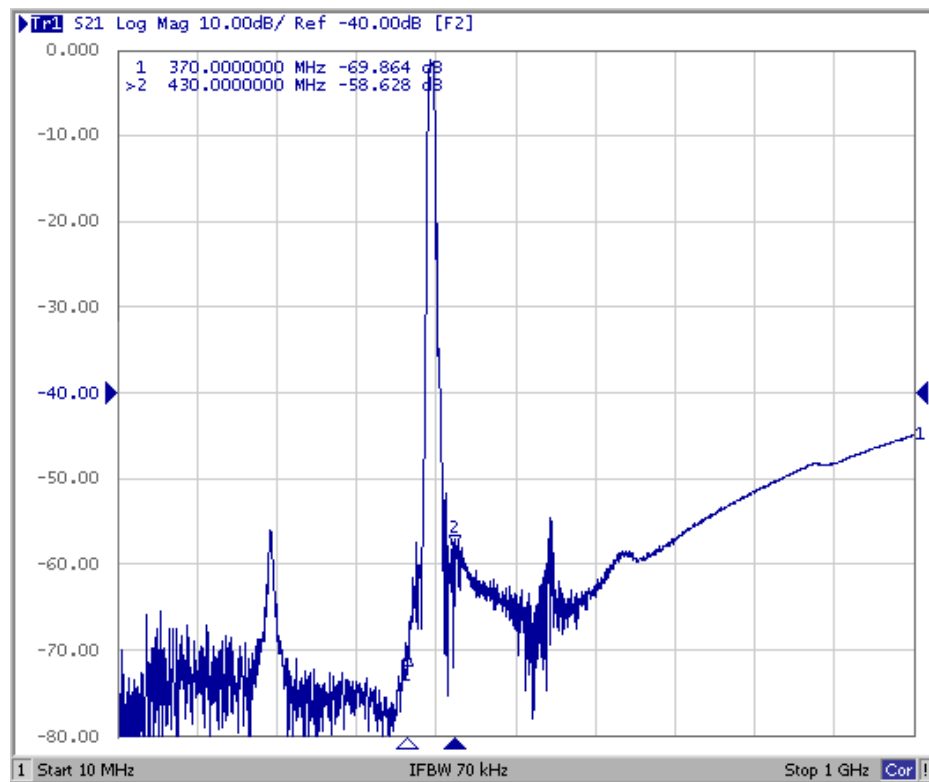
E. PCB Footprint:



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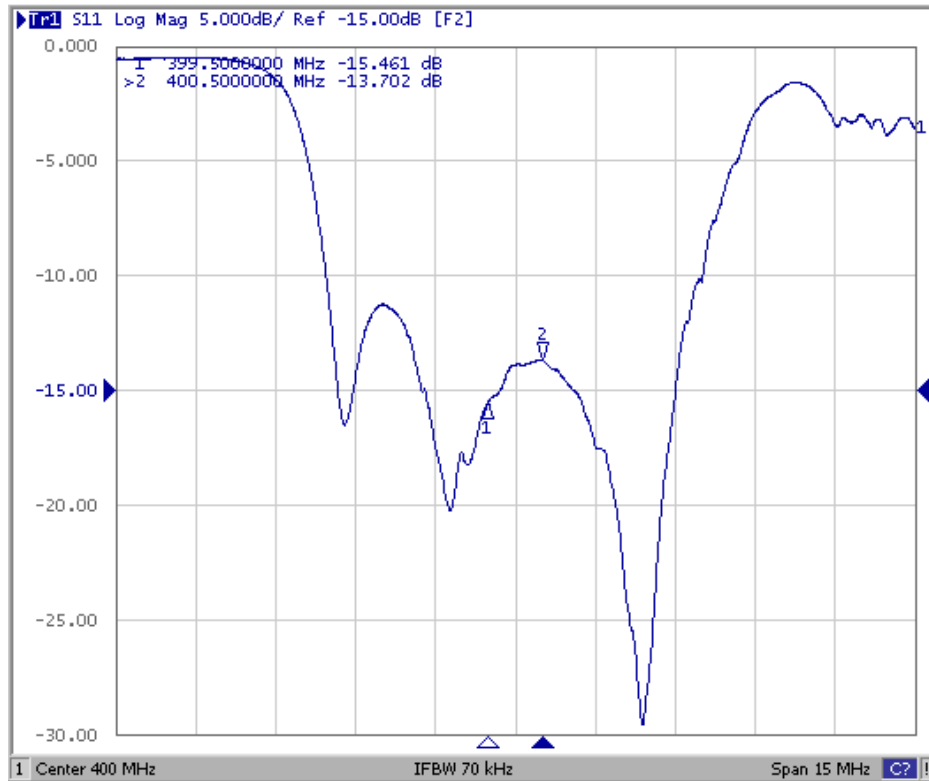
TST DCC
Release document

F. Frequency Characteristics:

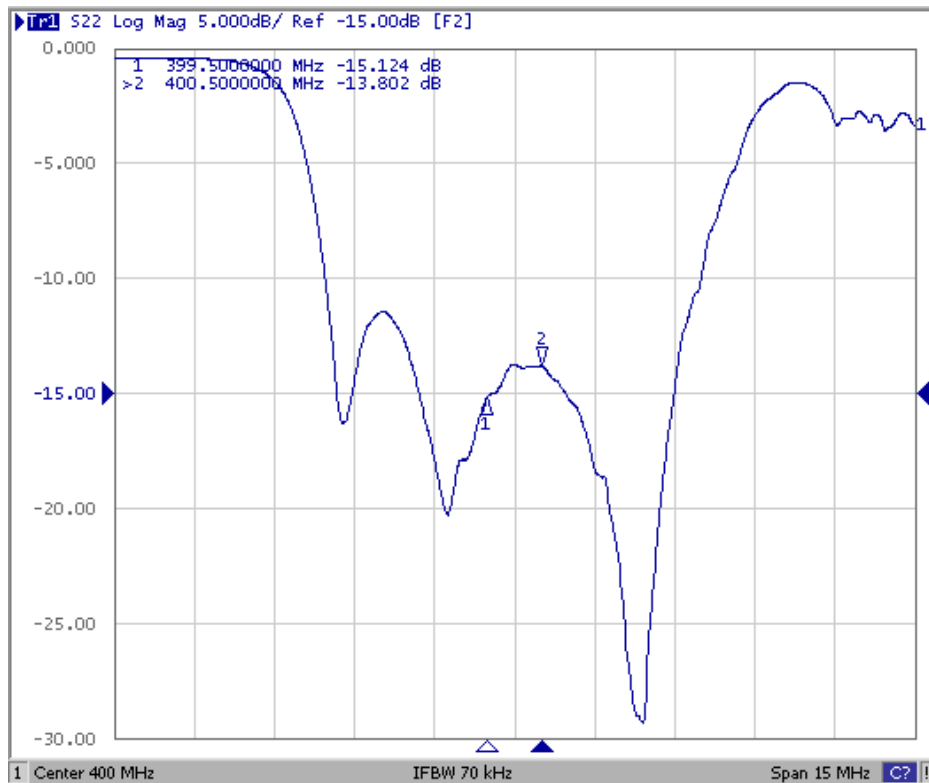


Reflection Functions:

S11



S22



1. REEL DIMENSION

Technical drawing of a circular plate. The main view shows a circle with a central hole. A leader line points from the text "See DETAIL 'A'" to the central hole. A detailed view of the hole is shown at the bottom right, labeled "A". The detailed view shows a hole with a diameter of $\phi 100 \pm 0.13$ and a thickness of 20 ± 0.5 . The hole is surrounded by a flange with a diameter of $\phi 330 \pm 0.13$. The flange has a thickness of 12 TYP. The hole is also surrounded by a flange with a diameter of $\phi 330$ REF. and a thickness of 12 TYP.

[illegible]

H. Recommended Reflow Profile:

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C}+0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

