



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

Issued Date: March, 12, 2013

Product Description: SAW Filter 2375MHz SMD 3.0X3.0 mm (BW=100MHz)

TST Part No.: TA1073A

Customer Part No.: _____

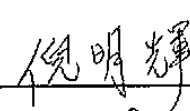
Customer signature required

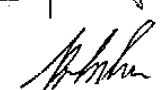
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: Paul Ni 

Approved by: Francis Chen 

Date: 2013/03/12

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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SAW Filter 2375MHz

MODEL NO.: TA1073A

REV. NO : 5.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 3 V
3. Operating Temperature: 0°C to +80°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

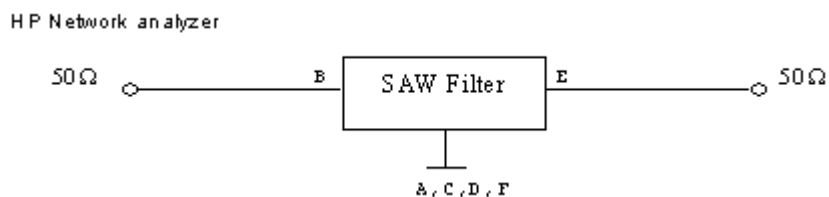
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

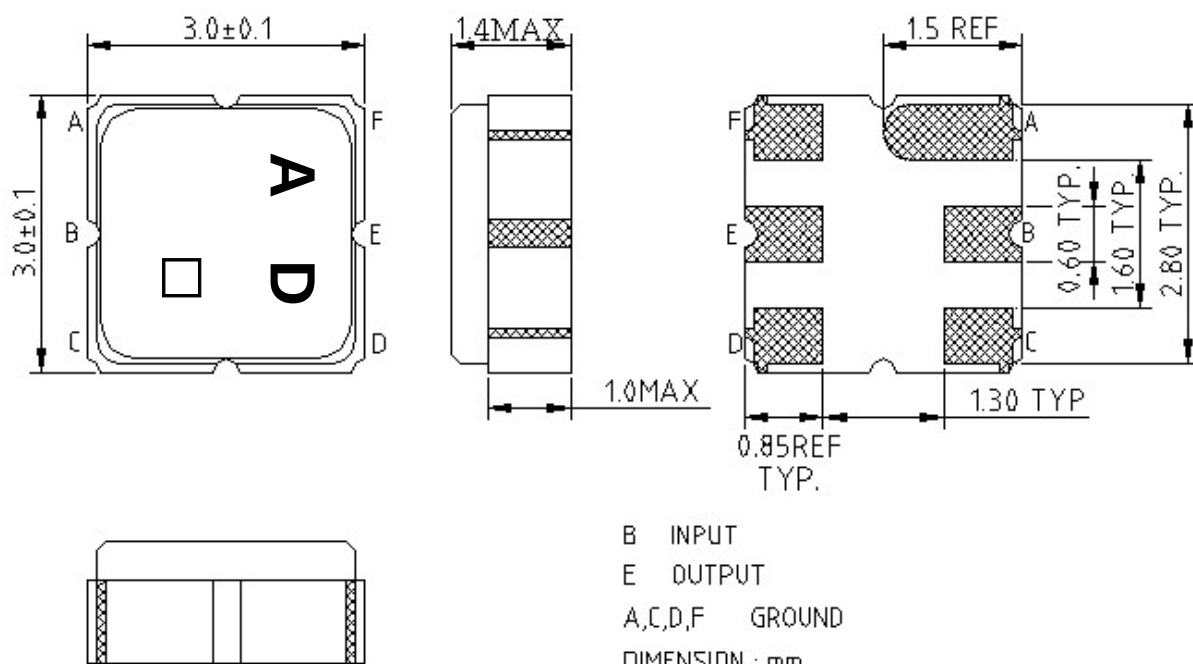
Item		Min.	Typ.	Max.
Center frequency	F _c MHz	-	2375	-
Insertion loss(2360 ~ 2390MHz)	IL dB	-	1.8	2.5
Insertion loss(2310 ~ 2360MHz)	IL dB	-	2.8	4.5
Insertion loss(2300 ~ 2310MHz)	IL dB	-	4.8	6.0
Insertion loss(2390 ~ 2400MHz)	IL dB	-	2.8	4.5
Amplitude ripple (2360~2390 MHz)	dB	-	0.6	1.0
Amplitude ripple (2310~2360 MHz)	dB	-	1.1	1.5
Amplitude ripple (2300~2310 MHz)	dB	-	1.7	2.5
Amplitude ripple (2390~2400 MHz)	dB	-	1.1	2.0
VSWR (2300~2400 MHz)			1.85	2.5
Attenuation (Reference level from 0 dB)				
D.C. ~ 2200 MHz	dB	23	29.5	-
2452 ~ 2472 MHz	dB	45	62	-
2472 ~ 4000 MHz	dB	30	35	-
Temperature Coefficient	Ppm/	-	-36	-
Source impedance	Z _s Ω	-	50	-
Load impedance	Z _L Ω	-	50	-

C. MEASUREMENT CIRCUIT:

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



D.OUTLINE DRAWING:

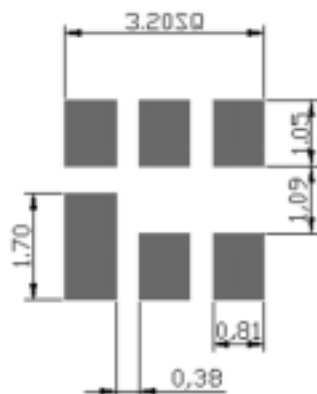


: Year Code(2010→0,2011→1...2019→9)

□ : Date Code(Follow the table from planner each year)

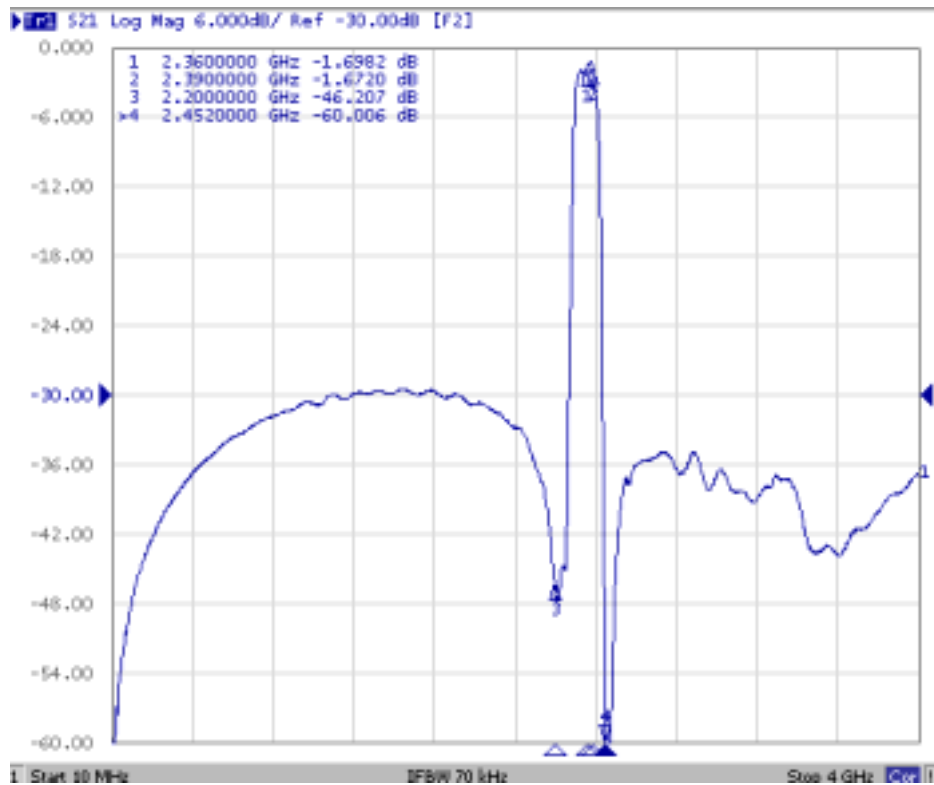
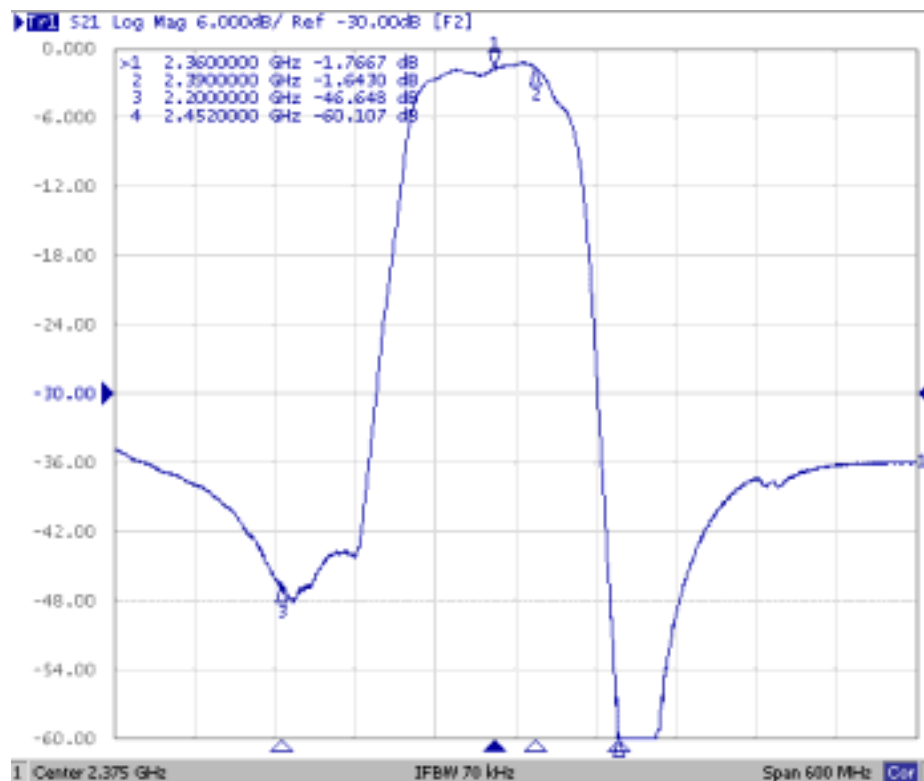
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. PCB Footprint :



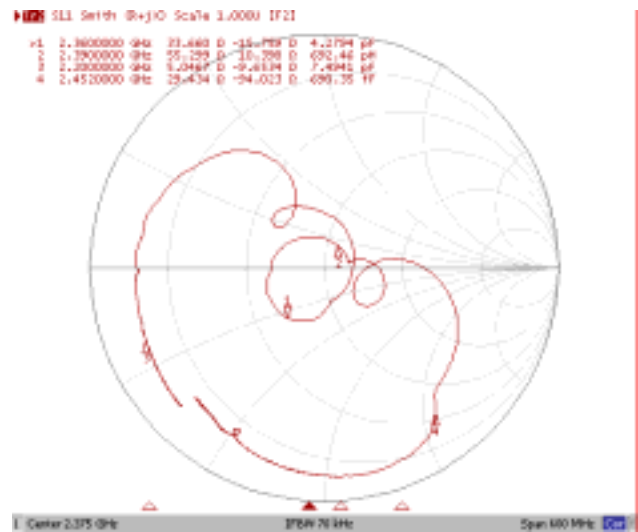
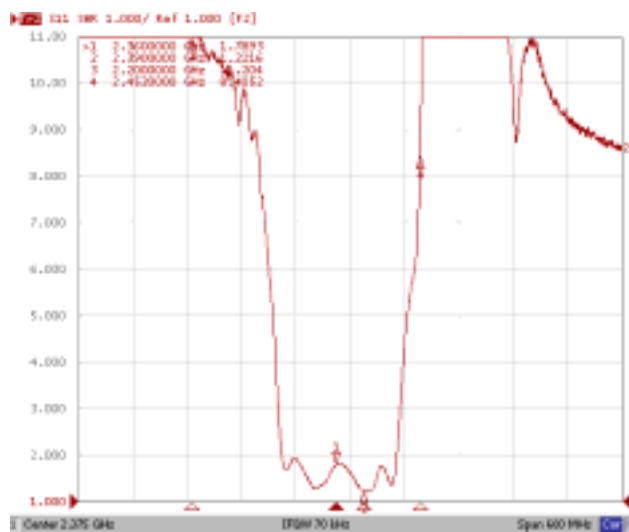
F. Frequency Characteristics :

Transfer function

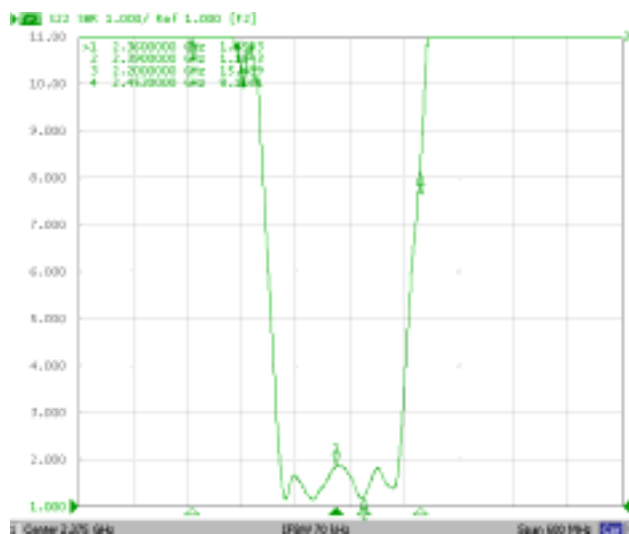


Reflection Functions :

S11



S22



1. REEL DIMENSION

See DETAIL "A"

Technical drawing showing a circular structure with a central hole. The drawing includes a top view (circle) and a side view (rectangle). The top view shows a large circle with a smaller dashed circle in the center, representing a hole. A leader line points from the text "See DETAIL 'A'" to the central hole. The side view shows a rectangular profile with dimensions: 12.0 (width) and 100.0 (height). A detail view "A" is shown at the bottom right, showing a cross-section of the hole with dimensions: 12.0 (width) and 100.0 (height). The detail view also shows a small circular feature with a diameter of 12.0.

Technical drawing of a mechanical part showing Section A-A and Section B-B. The drawing includes dimensions in mm and a note "DIMENSION : mm".

Section A-A: Shows the front view of the part. Key dimensions include:

- Top edge: 0.3 ± 0.05
- Top edge: 2.0 ± 0.05
- Top edge: 4.0 ± 0.05
- Top edge: $\phi 1.5^{+0.1}_{-0.0}$
- Top edge: 1.75
- Top edge: 5.5 ± 0.05
- Top edge: 12.0 ± 0.3
- Top edge: $R0.5$ (TYP.)
- Top edge: $\phi 1.5 \phi 0.1$
- Top edge: 3.35 ± 0.1
- Top edge: 8.0 ± 0.05
- Top edge: 1.4 ± 0.1
- Top edge: $R0.3$ (MAX.)

Section B-B: Shows the cross-section of the part. Key dimensions include:

- Top edge: 3.35 ± 0.1
- Top edge: 8.0 ± 0.05
- Top edge: 1.4 ± 0.1
- Top edge: $R0.3$ (MAX.)

Dimensions: DIMENSION : mm

Direction of Feed: Direction of Feed

H. RECOMMENDED REFLOW PROFILE:

