TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 1575.42 MHz SMD 2.0X1.6 mm

TST Part No.: TA0406A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Bob Chau

Approved by: Francis Chen

Date: 4, 27, 2012

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 1575.42MHz

MODEL NO.:TA0406A REV. NO.:3

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +95℃

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

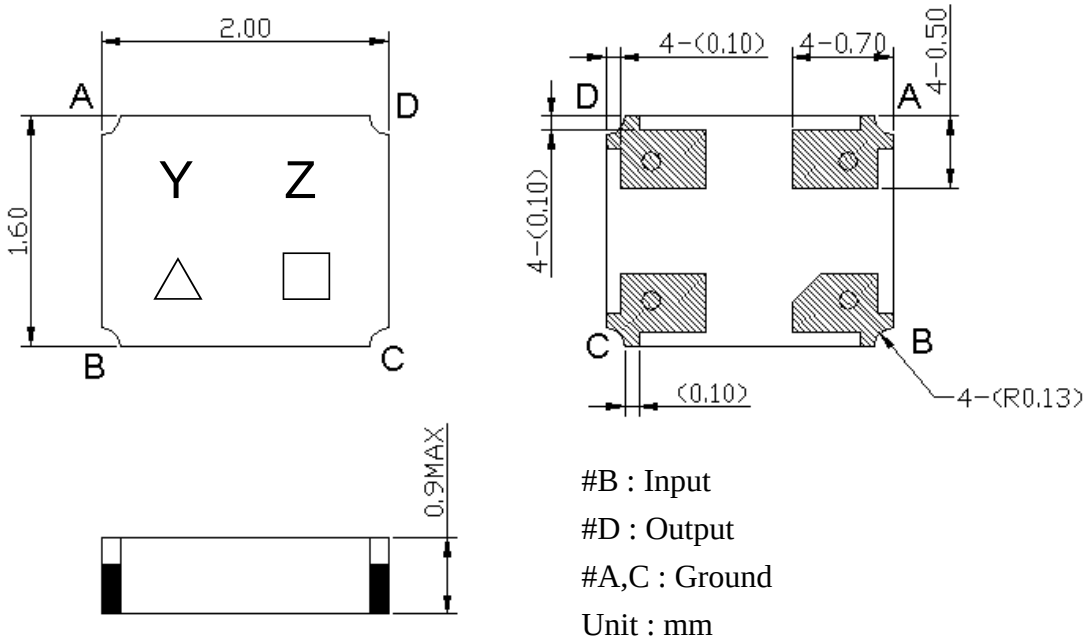
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 50 Ω

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency **Fc**	MHz	-	1575.42	-	-
Max. Insertion Loss (1574.42~1576.42 MHz) **IL**	dB	-	1.5	2.2	-
Amplitude ripple (1574.42~1576.42 MHz)	dB	-	0.1	1.0	-
VSWR (1574.42~1576.42 MHz)		-	1.15	2.0	-
Attenuation (Reference level from 0 dB)					
D.C~1400 MHz	dB	33	35	-	-
1400~1475 MHz	dB	35	42	-	-
1475~1525 MHz	dB	25	42	-	-
1625~1640 MHz	dB	30	53	-	-
1640~2000 MHz	dB	35	41	-	-
2000~3000 MHz	dB	25	36	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

C.OUTLINE DRAWING:



#B : Input
#D : Output
#A,C : Ground
Unit : mm

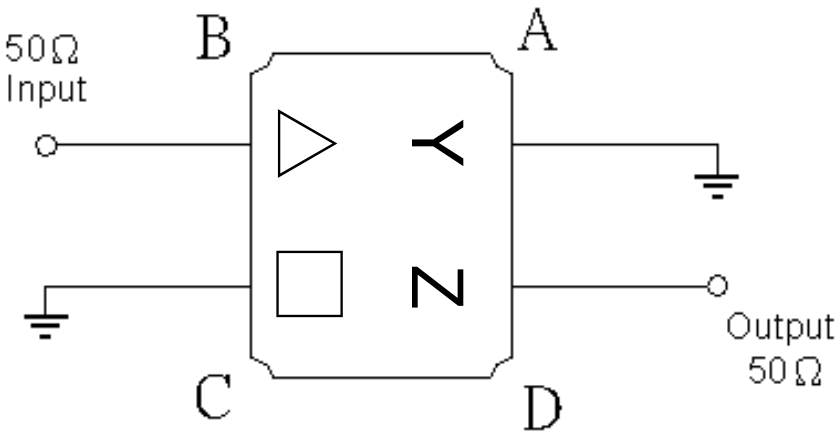
△ : Year Code (2009->9, 2010->0, …,2018->8)

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

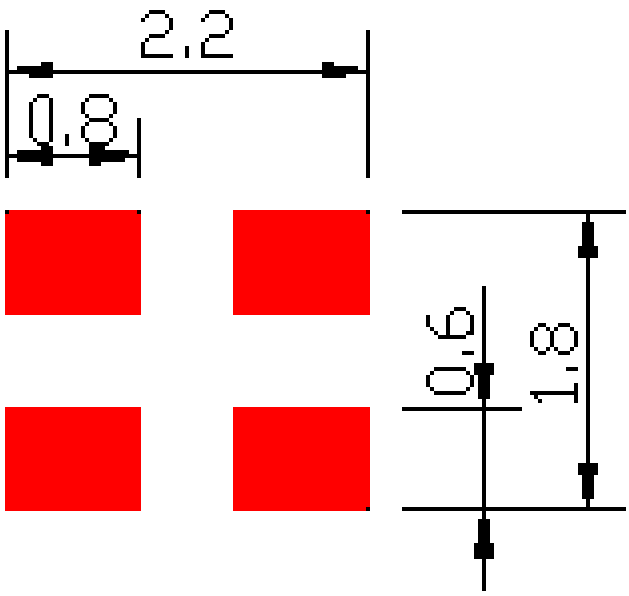
Date Code Table

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

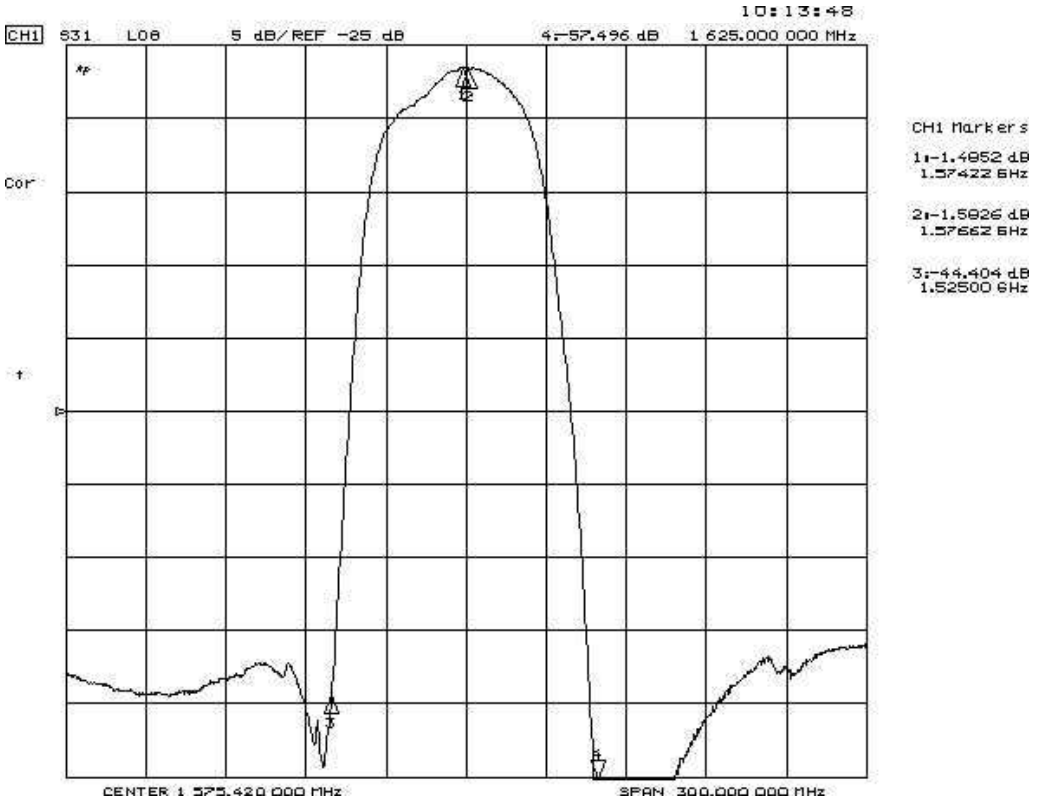
D. MEASUREMENT CIRCUIT:

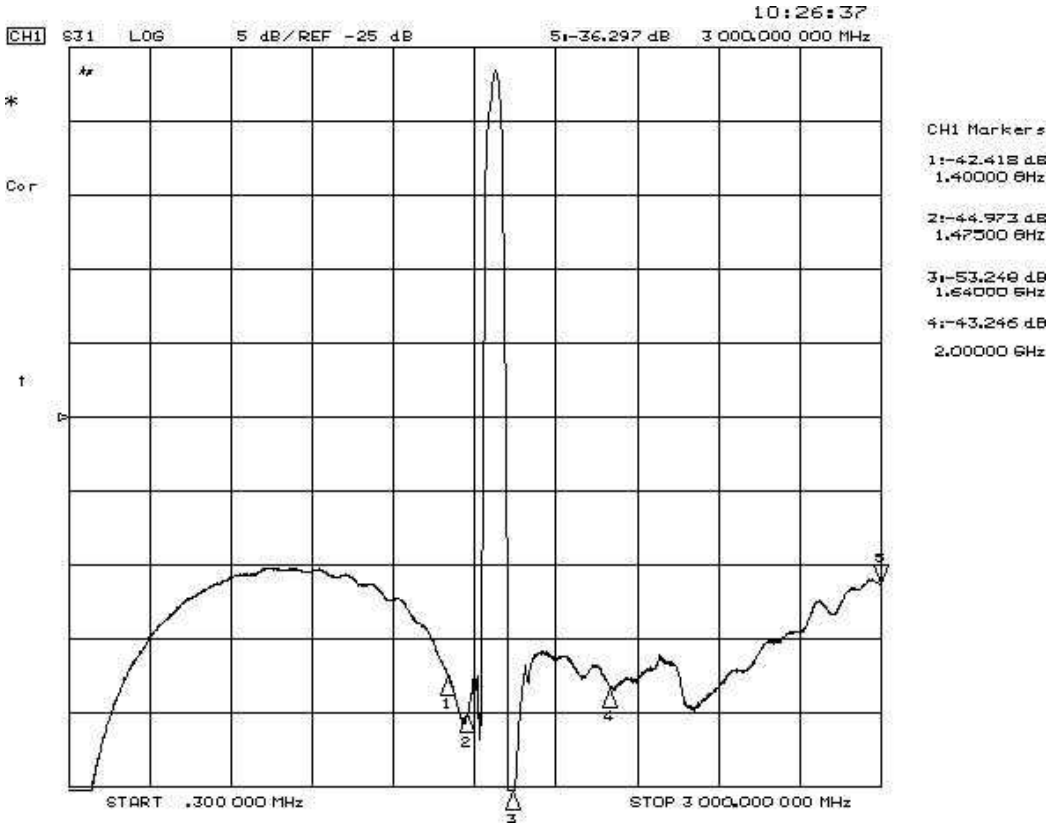


E. PCB Footprint:



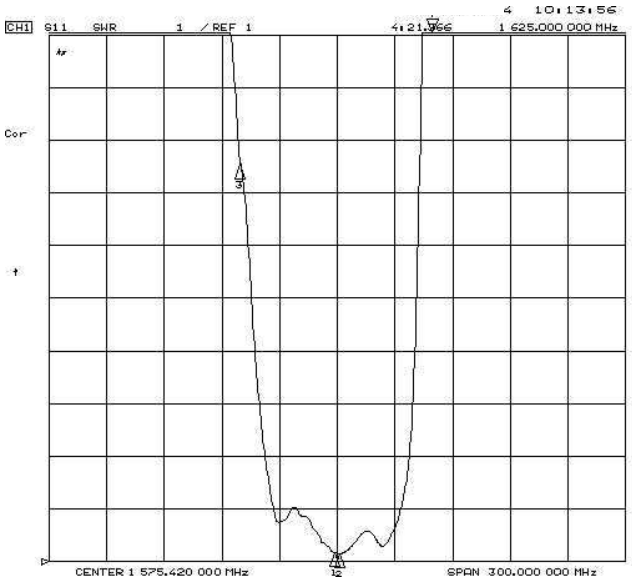
F. Frequency Characteristics :
Transfer function

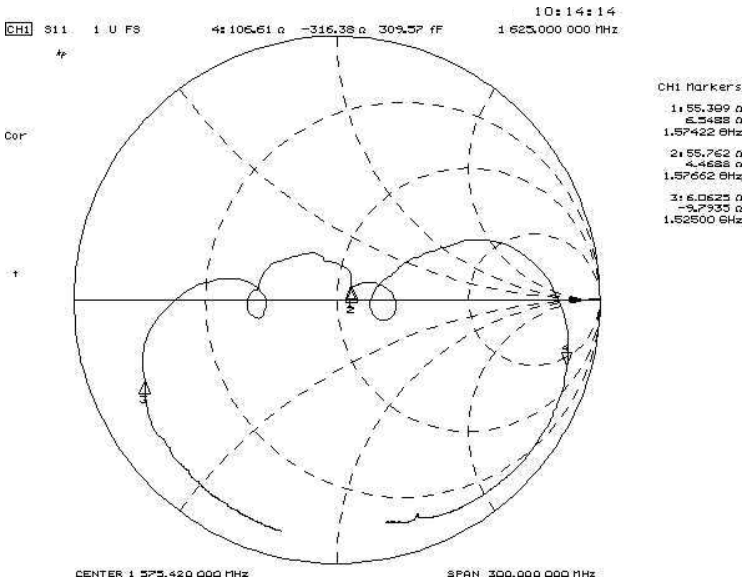




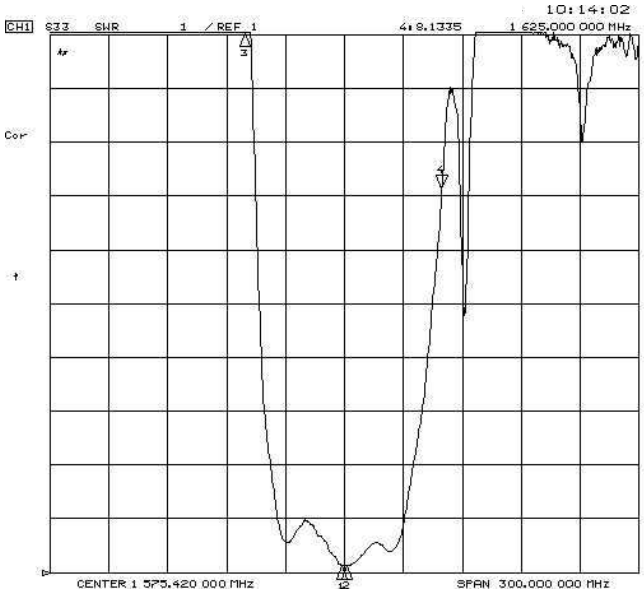
Reflections Functions :

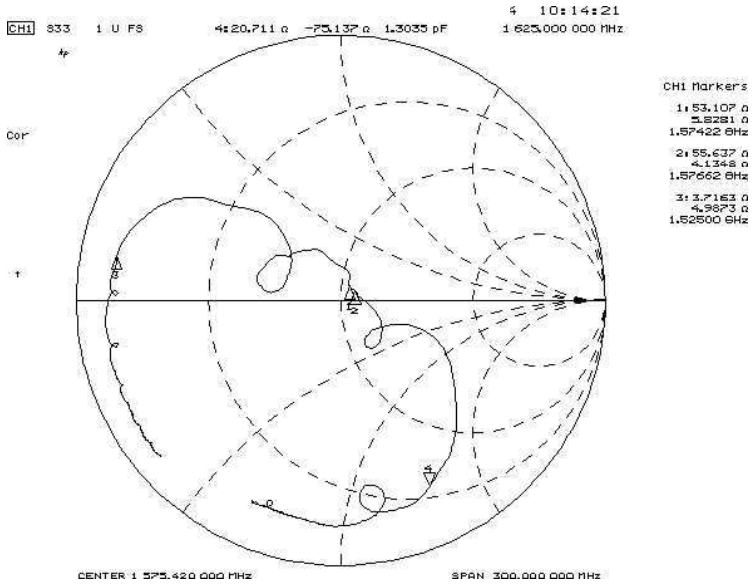
S11 VSWR





S22 VSWR

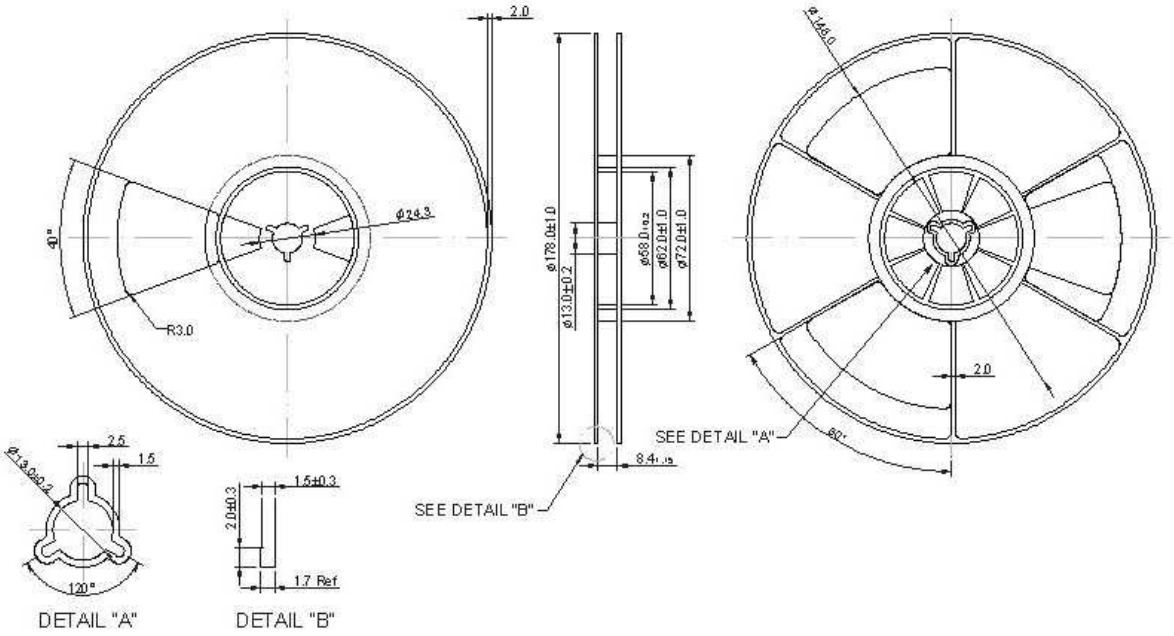




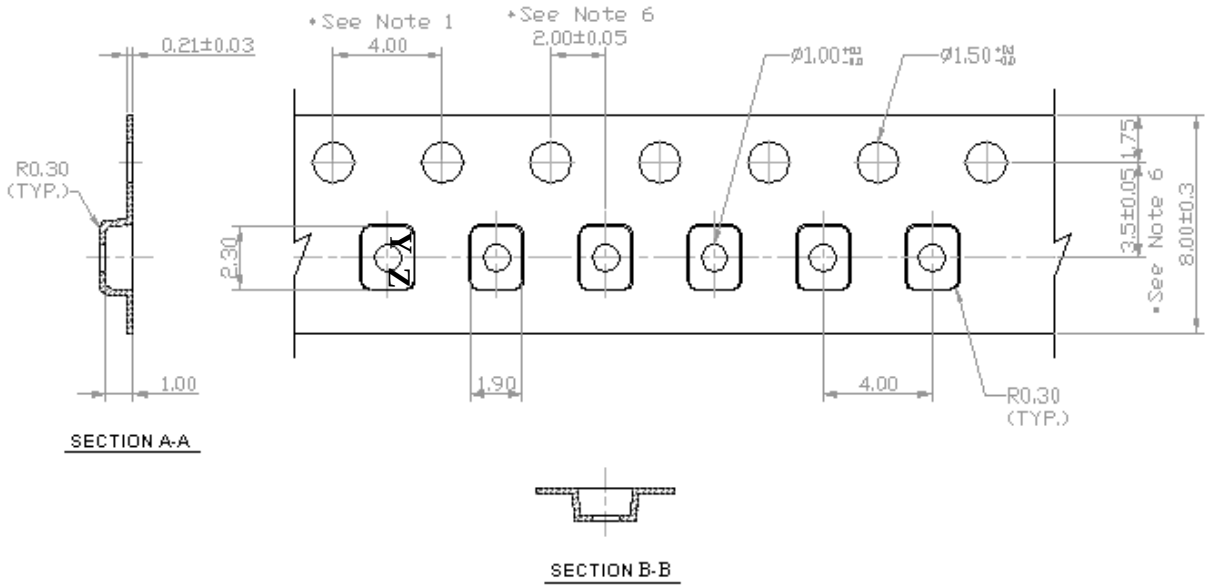
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7”=3000 typ. Or per the request of customer order)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.