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 Specification Approval Sheet

Product Name: SAW FILTER 1575.42 MHz 2.4MHz BW SMD 3.0 SQ For GPS

TST Parts No.: TA1575IGC

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen _____

Approved by:_____ Francis Chen _____

Date:_____ 01, 11 , 2013 _____

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 1575.42 MHz for GPS ~ Low Loss ~

MODEL NO.: TA1575IGC REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m
2.DC voltage: 0 V
3.Operating Temperature: -40°C to +85°C
4.Storage Temperature: -50°C to +100°C

RoHS Compliant
Lead free
Lead-free soldering

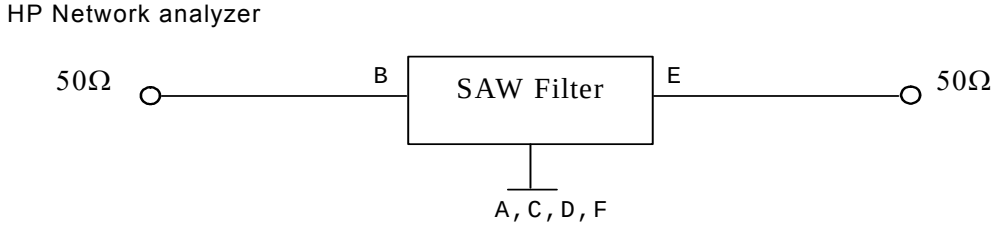
Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

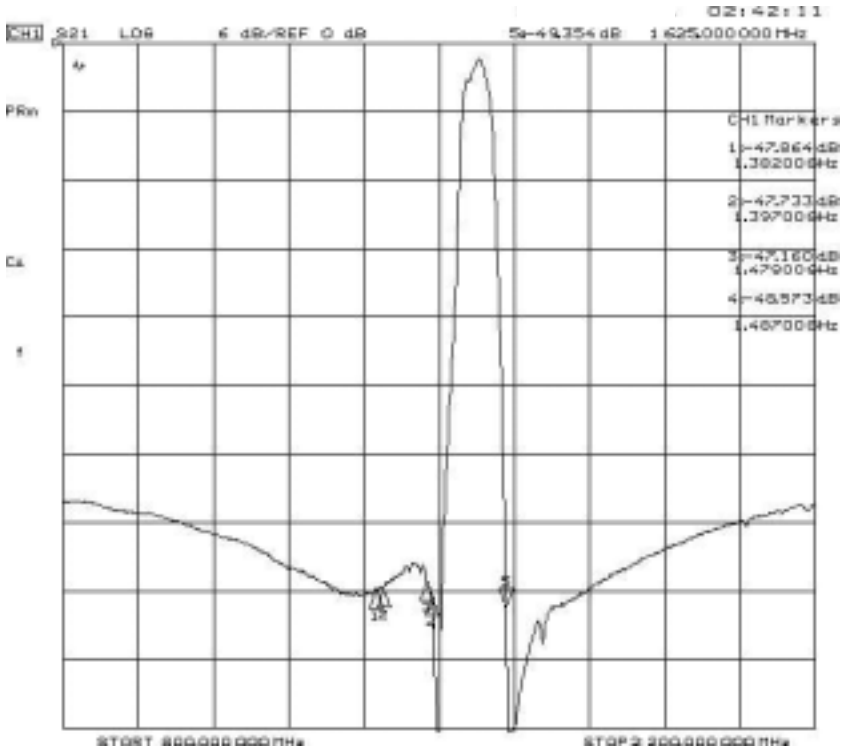
Item			Min.	Typ.	Max.
Center frequency	**Fc**	(dB)	-	1575.42	-
Insertion loss 1574.22 ~1576.62 MHz	**IL**	(dB)	-	1.5	2.0
Amplitude ripple (p-p) 1574.22 ~ 1576.62 MHz		(dB)	-	0.15	1.0
Attenuation (Reference level from 0 dB)					
DC ~ 1382 MHz		(dB)	37	40	-
1382 ~ 1397 MHz (IF Image frequency)		(dB)	40	47	-
1397 ~ 1478 MHz		(dB)	40	45	-
1478 ~ 1487 MHz (Local frequency)		(dB)	40	47	-
1487 ~ 1500 MHz		(dB)	30	52	-
1625 ~ 1640 MHz		(dB)	30	49	-
1640 ~ 2000 MHz		(dB)	38	42	-
2000 ~ 3000 MHz		(dB)	33	38.5	
VSWR within 1574.22 ~1576.62 MHz			-	1.1	2.0
Source impedance	Zs	(Ω)	-	50	-
Load impedance	Z_L	(Ω)	-	50	-

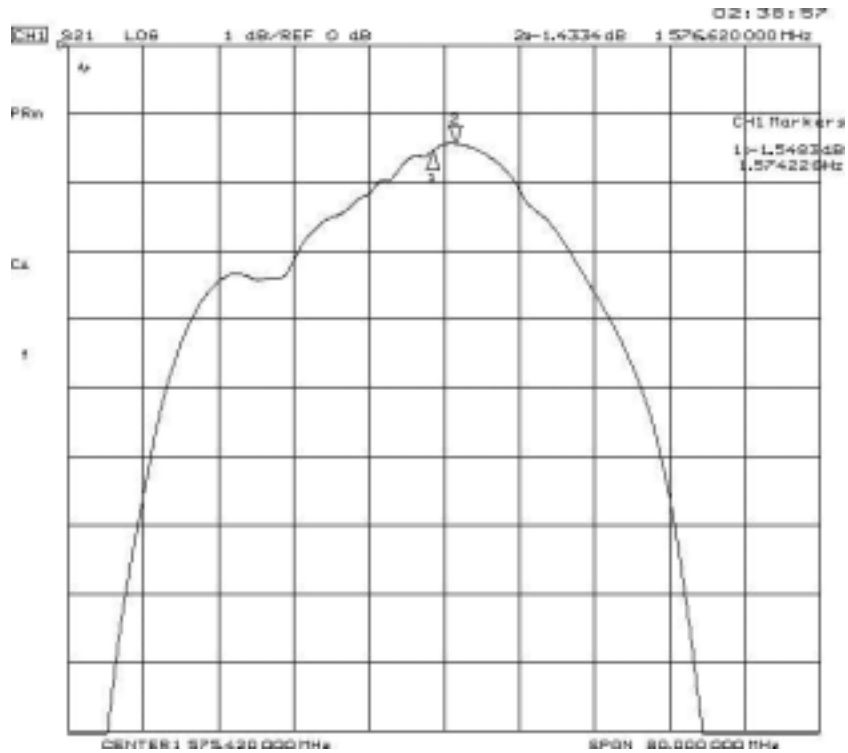
Note1. No matching network required for operation at 50 Ω

MEASUREMENT CIRCUIT:



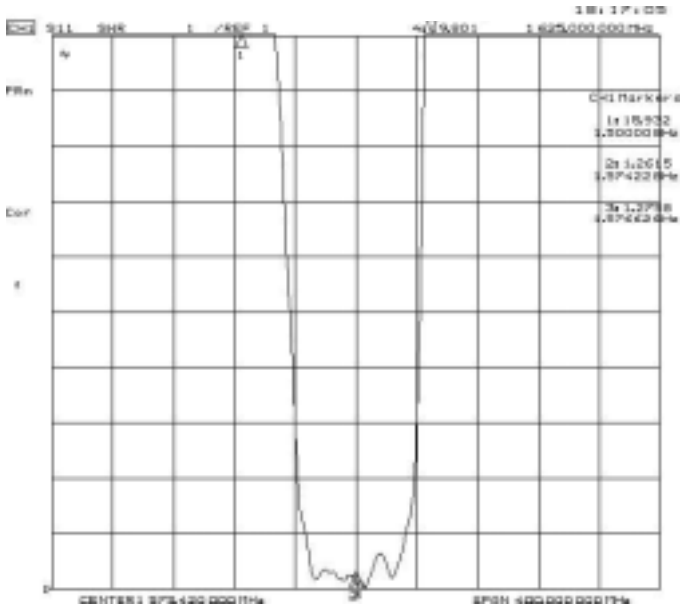
C. Frequency Characteristics :

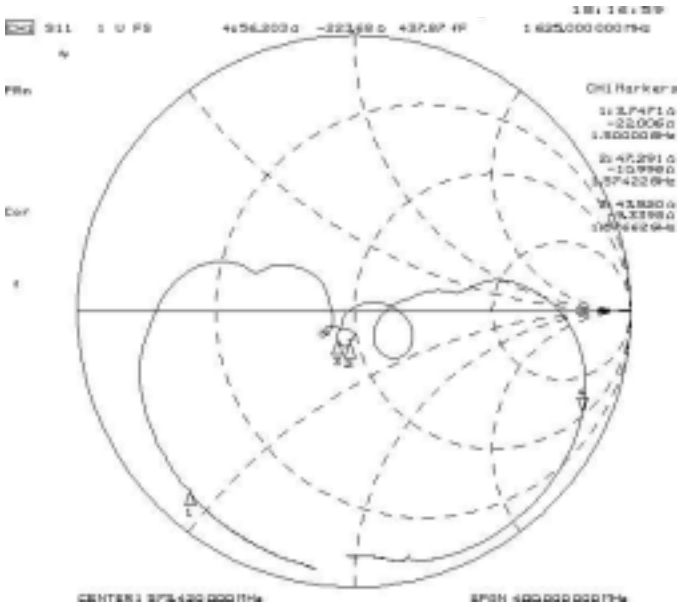




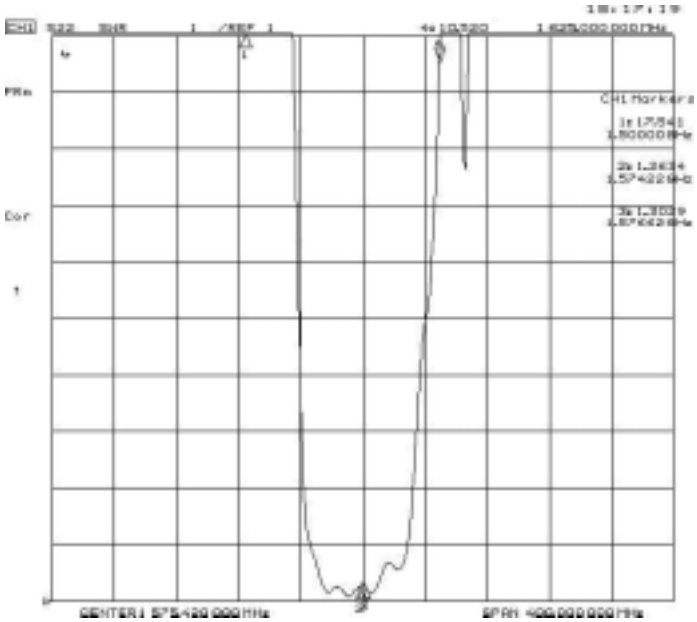
D. Reflections Functions :

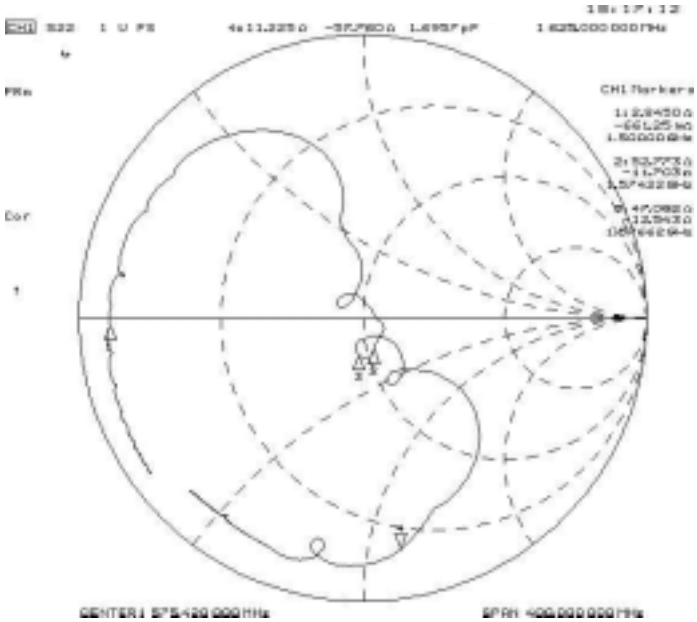
S11 VSWR



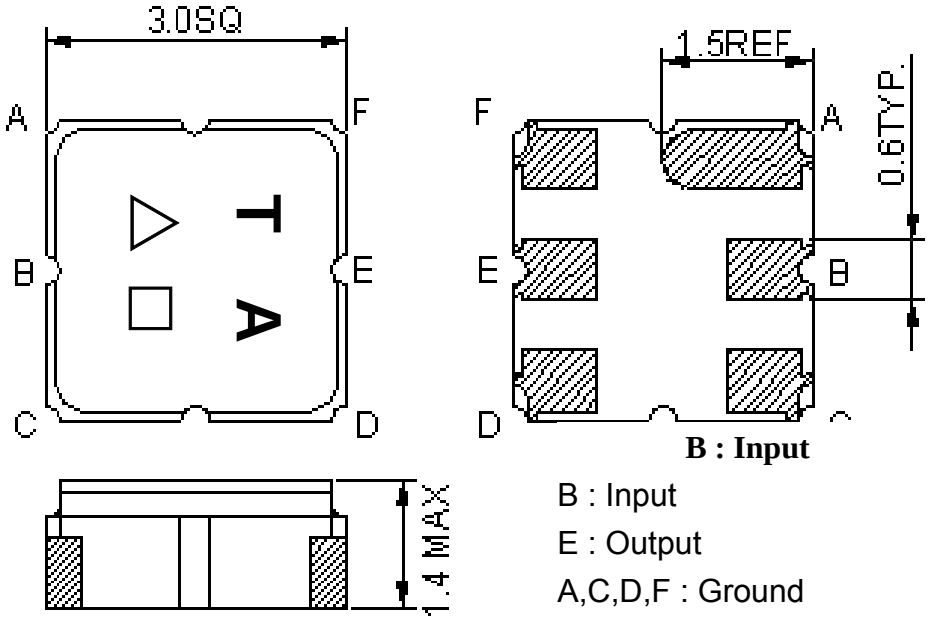


S22 VSWR





E.OUTLINE DRAWING:



B : Input
E : Output
A,C,D,F : Ground
Unit : mm

Marking name : **TA**

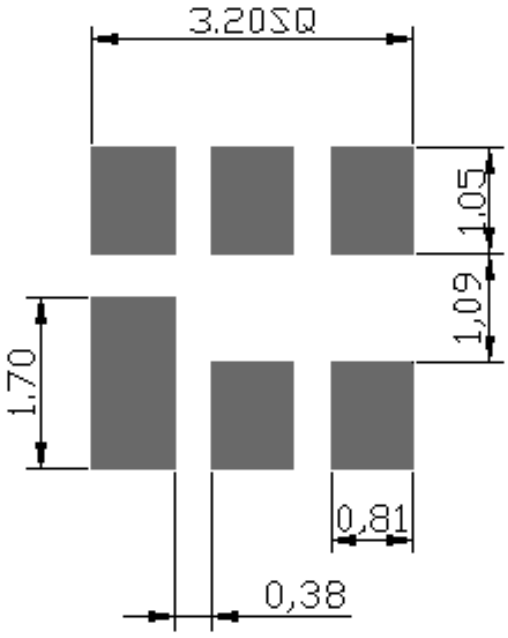
△ : year code(2011→1, 2019→9.)

☐ : 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

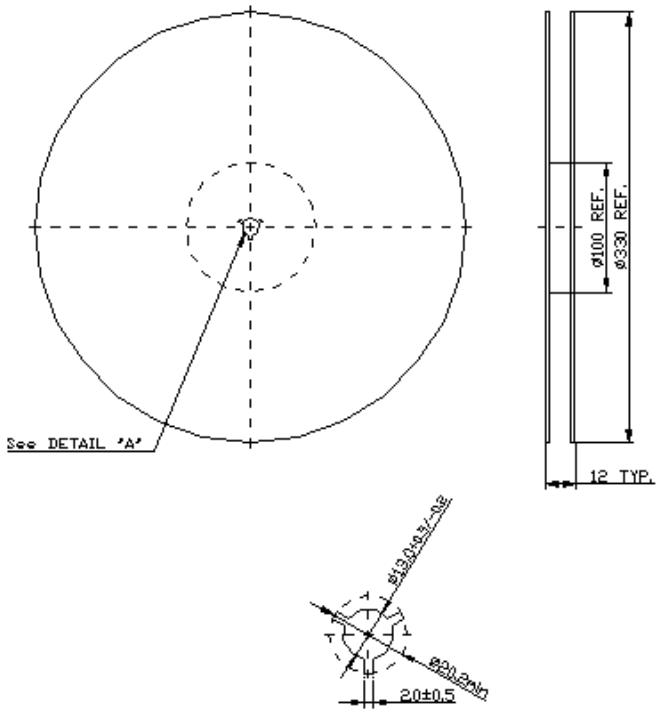
F. PCB Footprint:



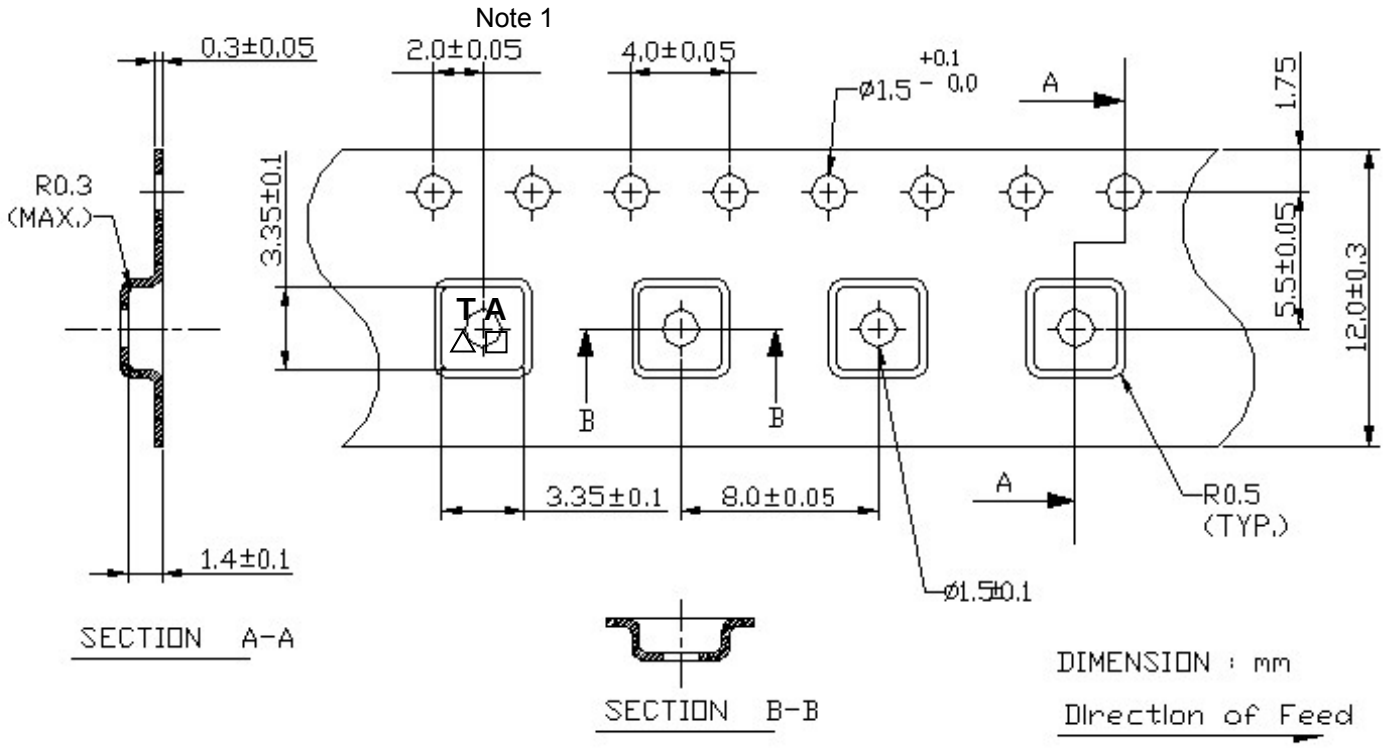
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7”=1000 ; 13”=3000 or per the request of customer order)



2. TAPE DIMENSION



H. <u>RECOMMENDED REFLOW PROFILE</u> :

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.

