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

Issued Date: May, 01, 2013

Product Description: SAW Filter 1575MHz SMD 3.0X3.0 mm (BW=20MHz)

TST Part No.: TA1153A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Paul Ni Paul Ni

Approved by: Bob Chan

Date: 2013/05/01

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.

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

SAW Filter 1575MHz

MODEL NO.: TA1153A REV. NO：1.0

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m

2.DC voltage: 3 V

3.Operating Temperature: -20°C to +70°C

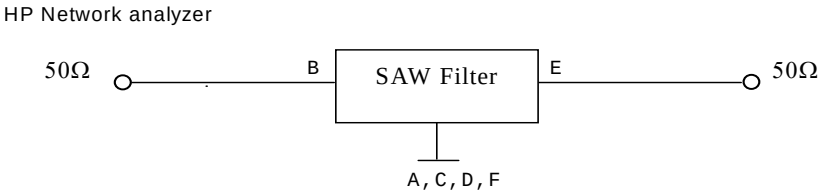
4. Storage Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

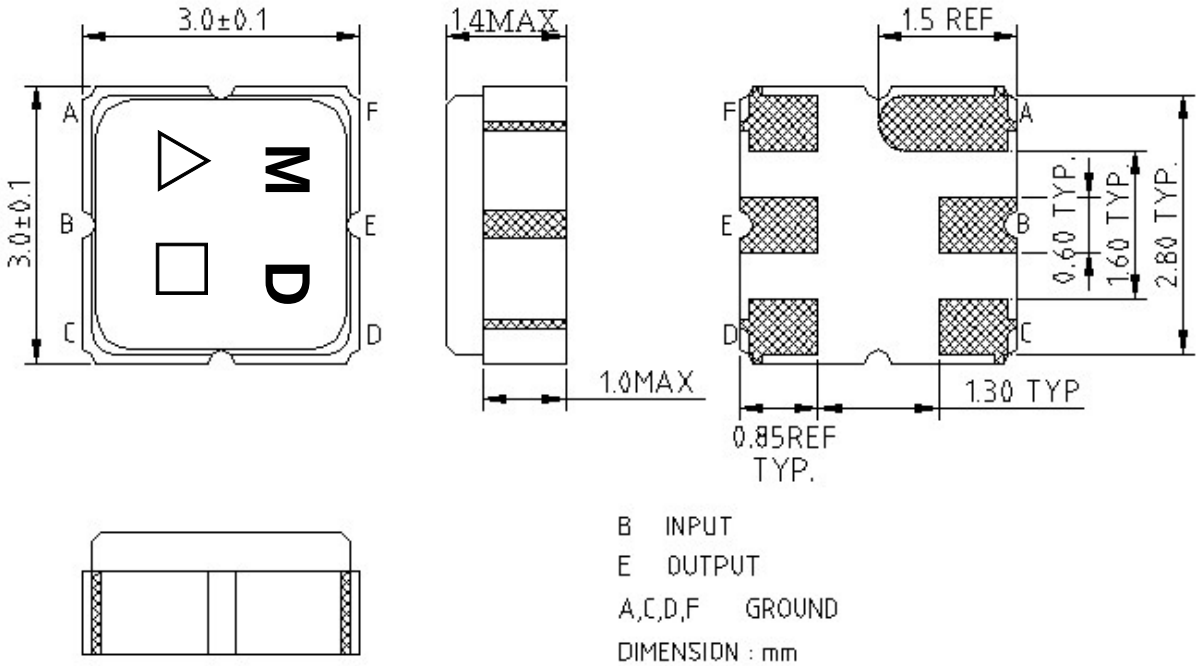
Item		Unit	Min.	Typ.	Max.
Center frequency	**Fc**	MHz	-	1575	-
3dB BW		MHz	-	47	-
Insertion loss within 1565 ~ 1585 MHz	**IL**	dB	-	1.9	4.0
Amplitude ripple(p-p) within 1565 ~ 1585 MHz		dB	-	0.5	1.8
Group delay ripple(p-p) within 1565 ~ 1585 MHz		ns	-	8	25
Return Loss 1565 ~1585 MHz		dB	8	12	-
Attenuation (Reference level from 0 dB)					
10 ~ 1425 MHz		dB	33	40	-
1425 ~ 1500 MHz		dB	40	42.5	-
1640 ~ 2100 MHz		dB	38	47	
2100 ~ 3000 MHz		dB	25	41	-
Source impedance	Zs	Ω	-	50	-
Load impedance	Z_L	Ω	-	50	-

C. MEASUREMENT CIRCUIT:

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



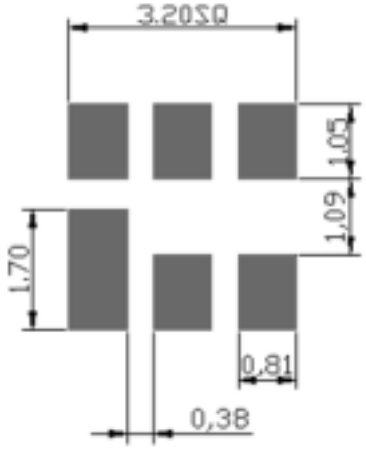
D.OUTLINE DRAWING:



△ : Year Code(2012➔2,2013➔3…2019➔9)

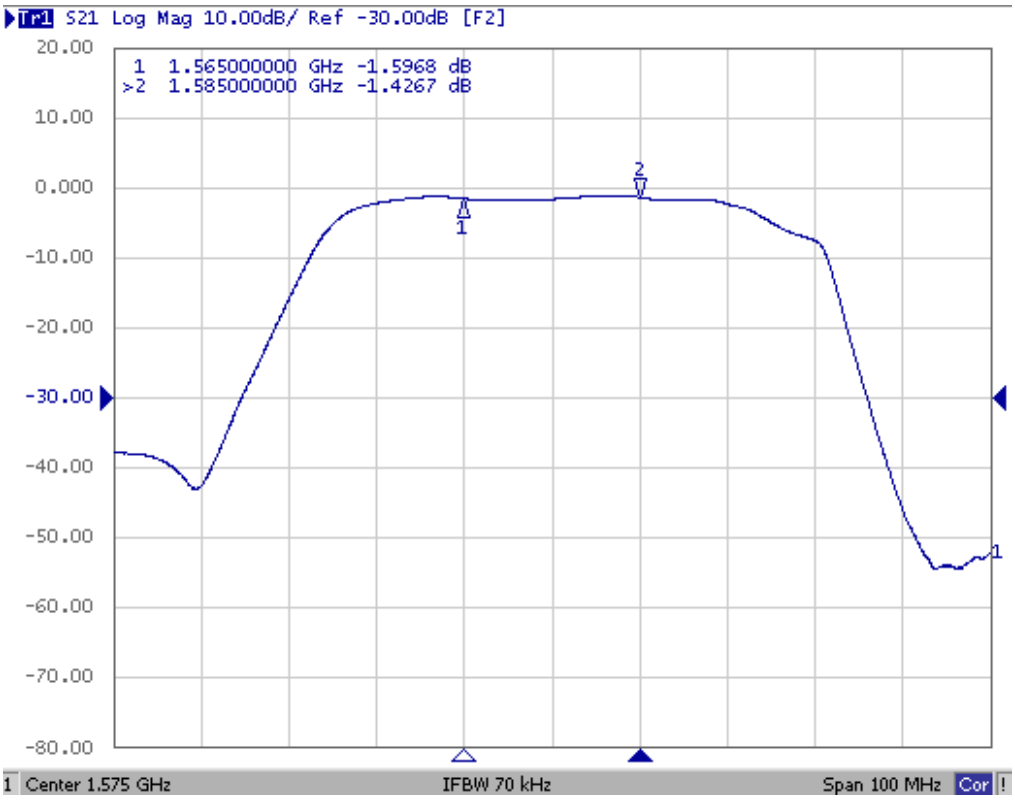
□ : Date Code(Follow the table from planner each year)

E. PCB Footprint：

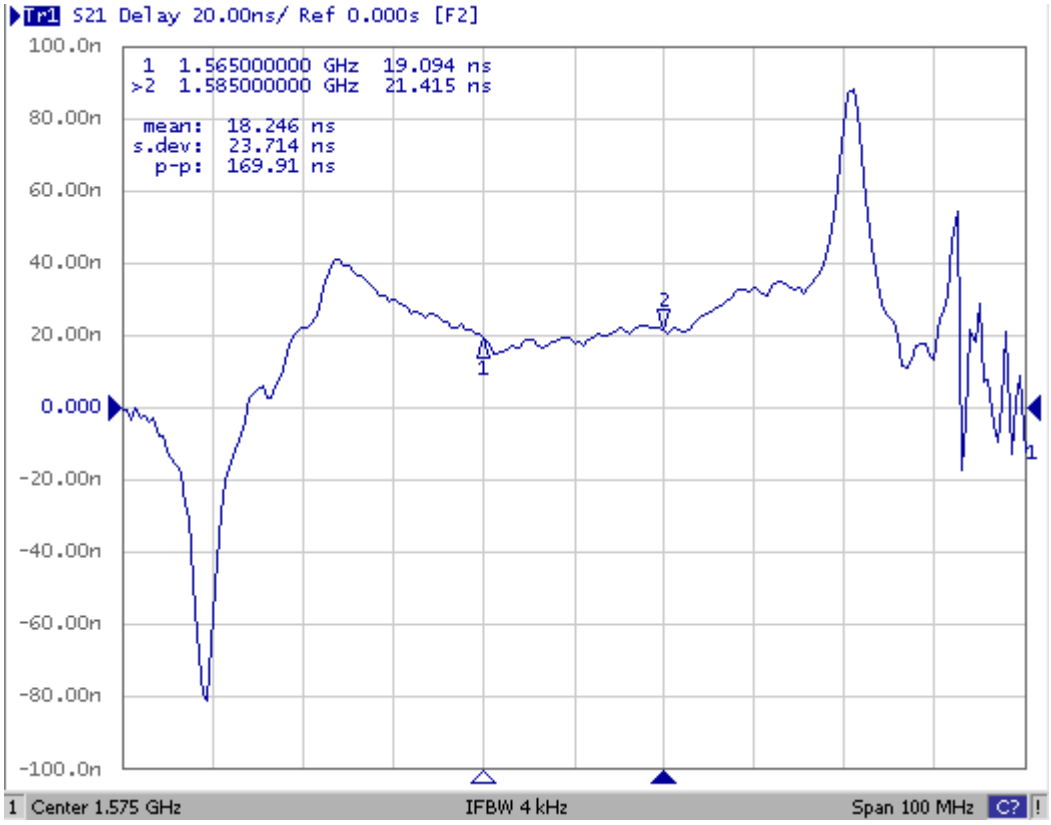


F. Frequency Characteristics :

Transfer function

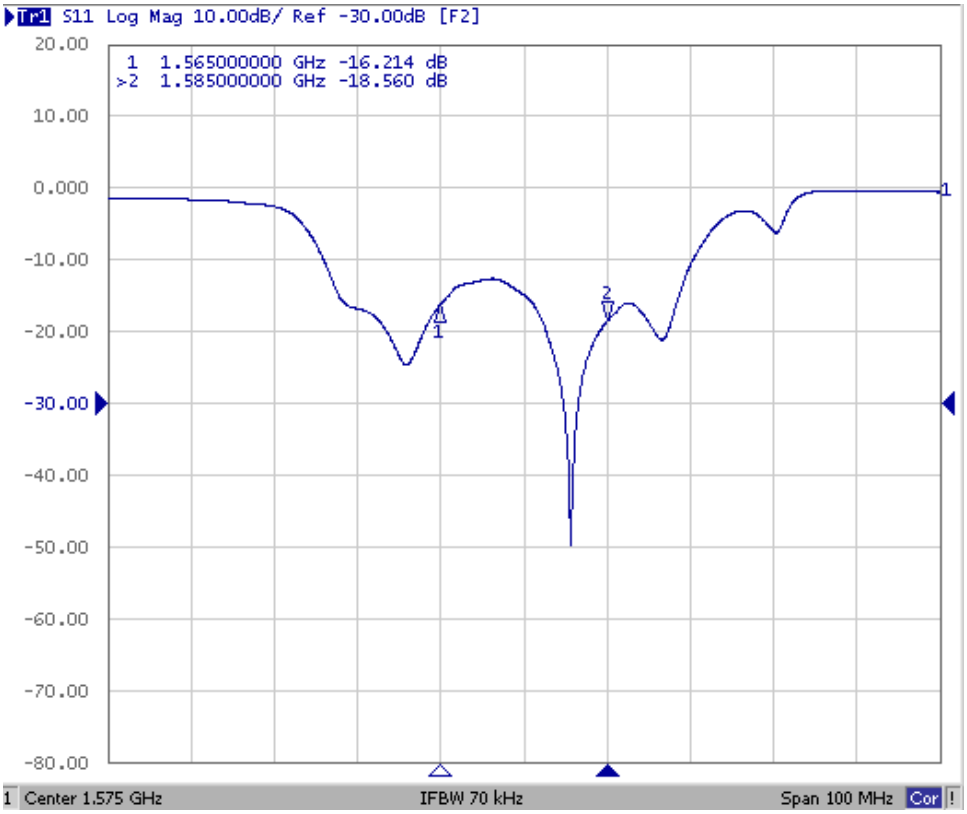


Group delay ripple：

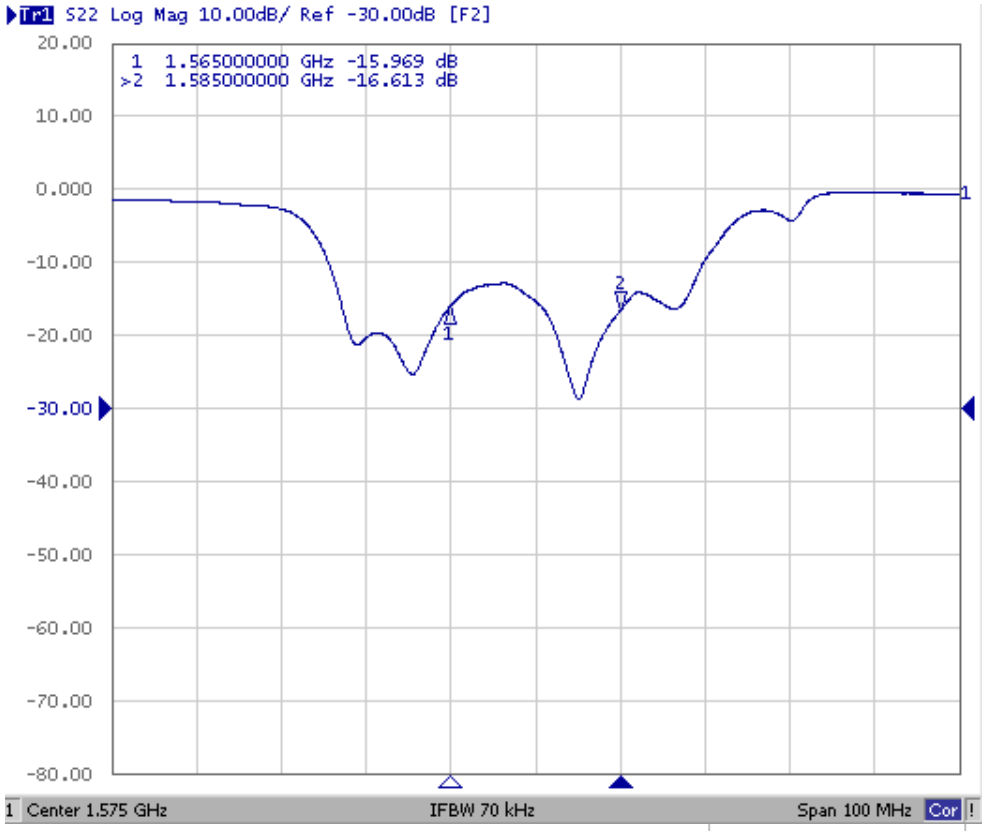


Reflection Functions：

Return Loss--S11

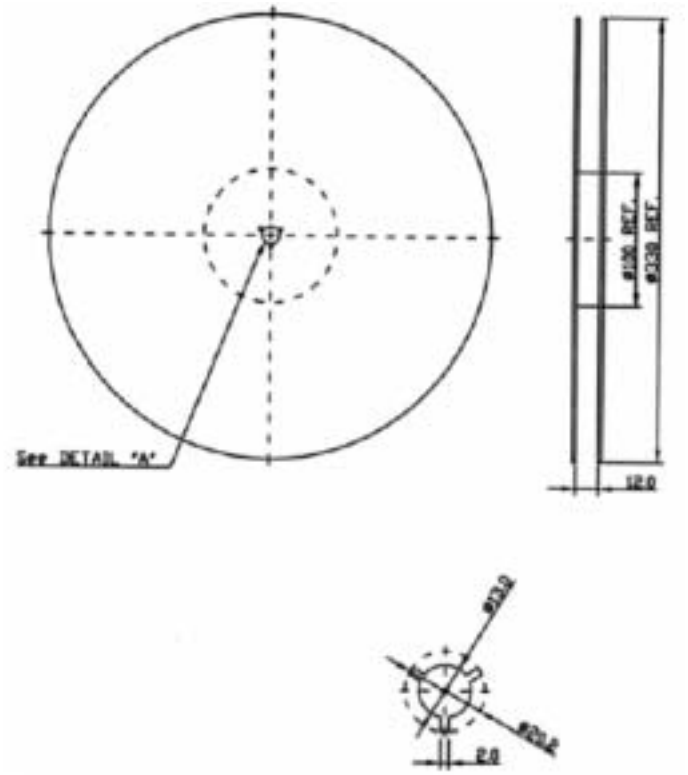


Return Loss—S22

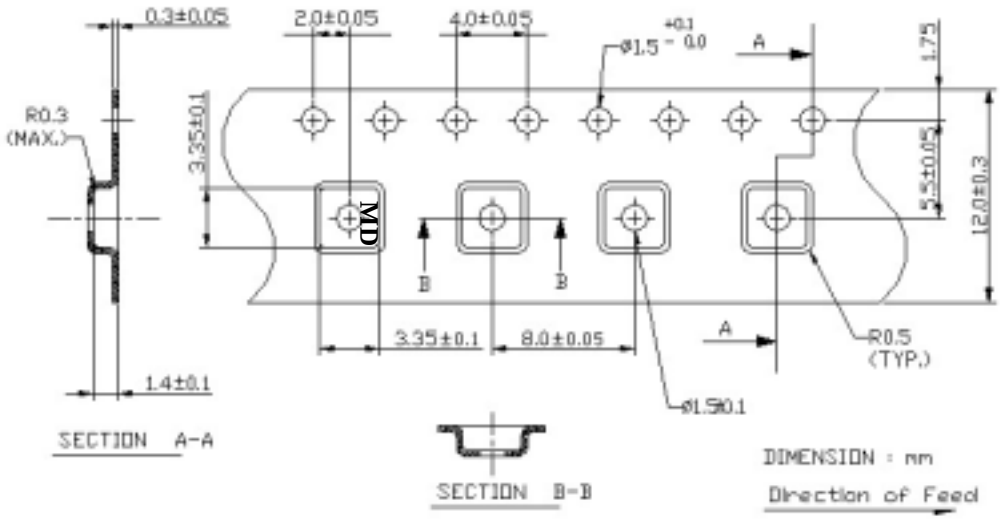


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE: