



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 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

Approved by: _____ Francis Chen

Date: _____ 2010/10/06

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 1575MHz

MODEL NO.: TA1153A

REV. NO : 1.0

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

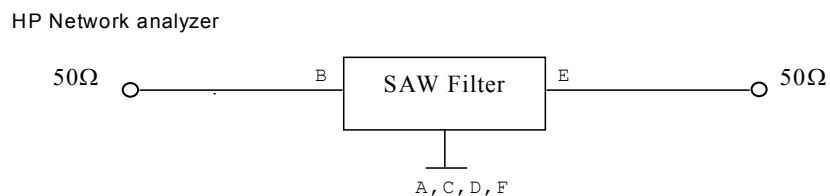
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

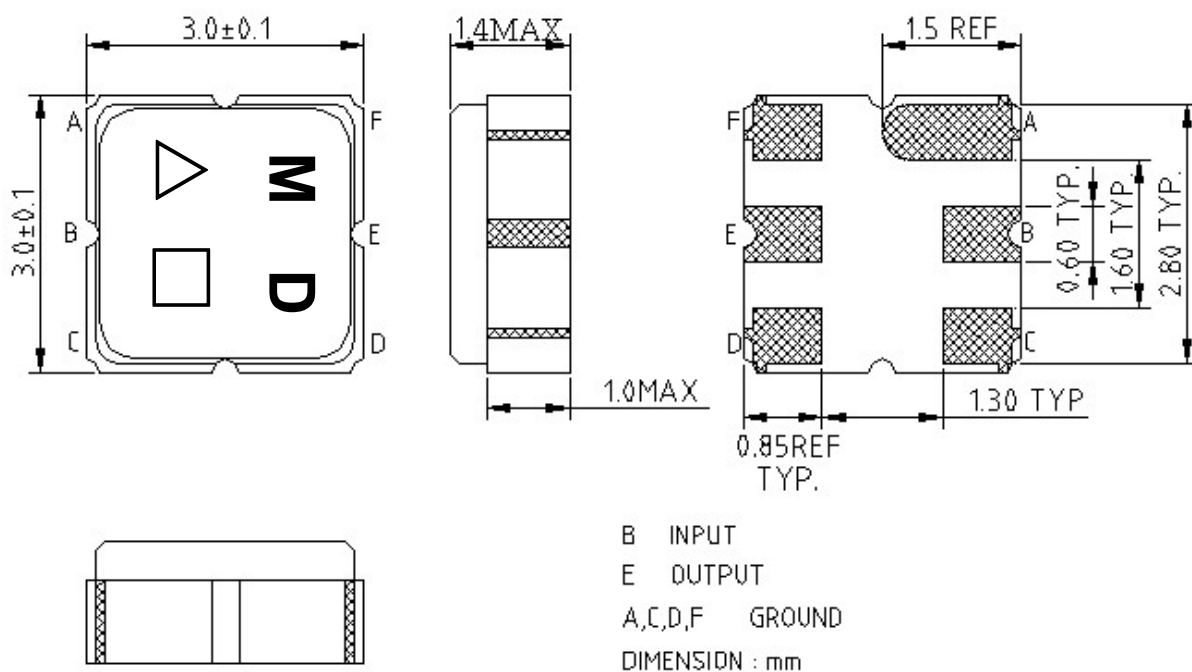
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1575	-
3dB BW	MHz	-	47	-
Insertion loss within 1565 ~ 1585 MHz IL	dB	-	1.9	4.0
Amplitude ripple(p-p) within 1565 ~ 1585 MHz	dB	-	0.5	1.8
Group delay ripple(p-p) within 1565 ~ 1585 MHz	ns	-	8	25
Return Loss 1565 ~1585 MHz	dB	8	12	-
Attenuation (Reference 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 Z _S	Ω	-	50	-
Load impedance Z _L	Ω	-	50	-

C. MEASUREMENT CIRCUIT:

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



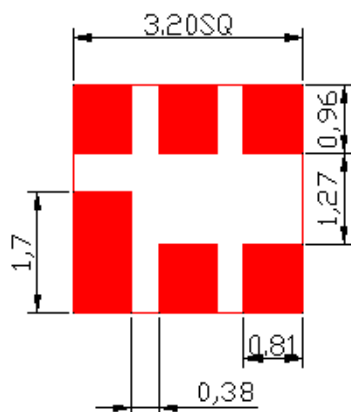
D.OUTLINE DRAWING:



△ : Year Code(2010→0,2011→1...2019→9)

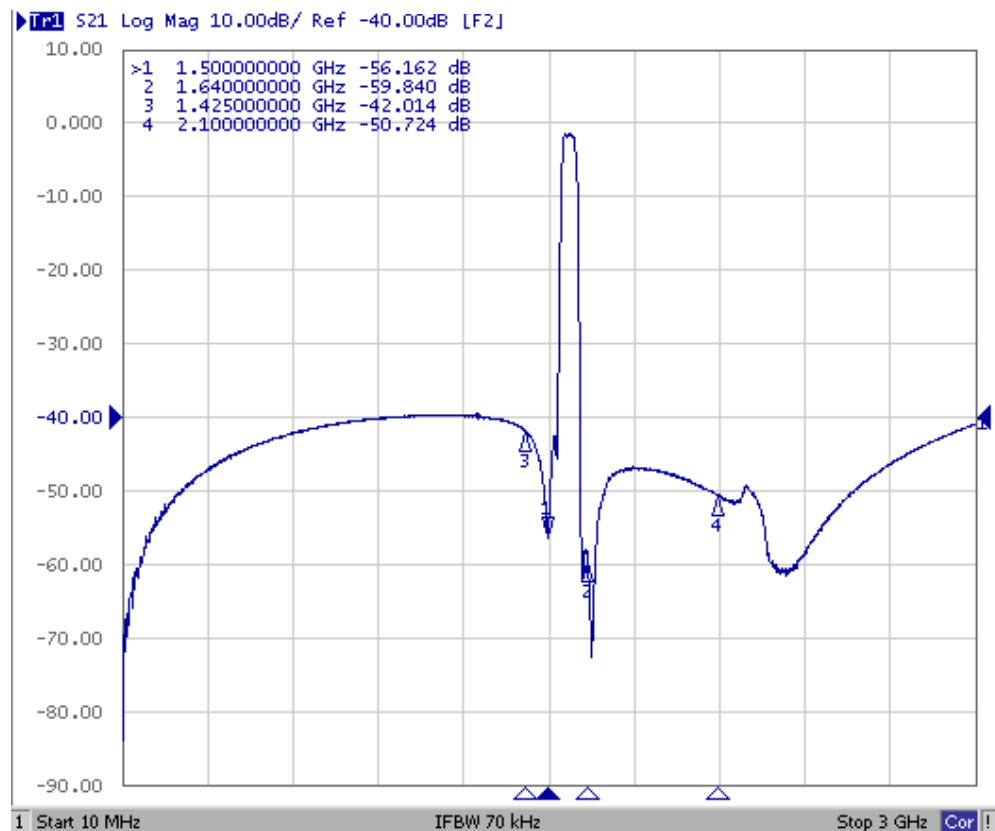
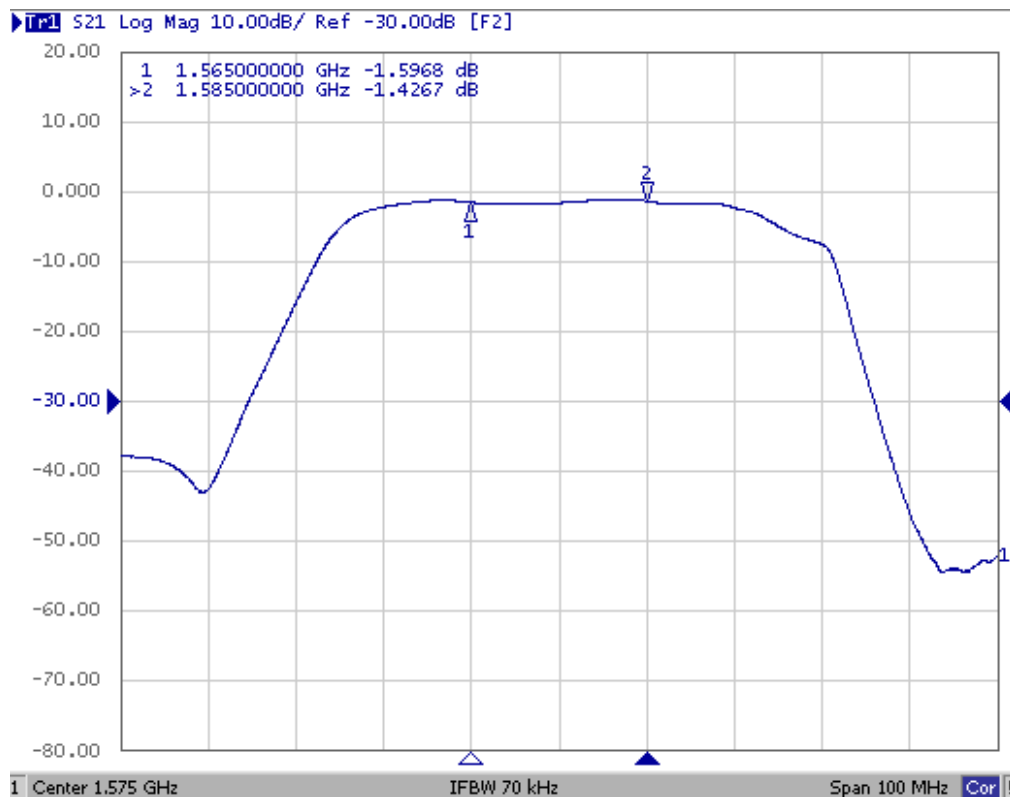
□ : Date Code(Follow the table from planner each year)

E. PCB Footprint :

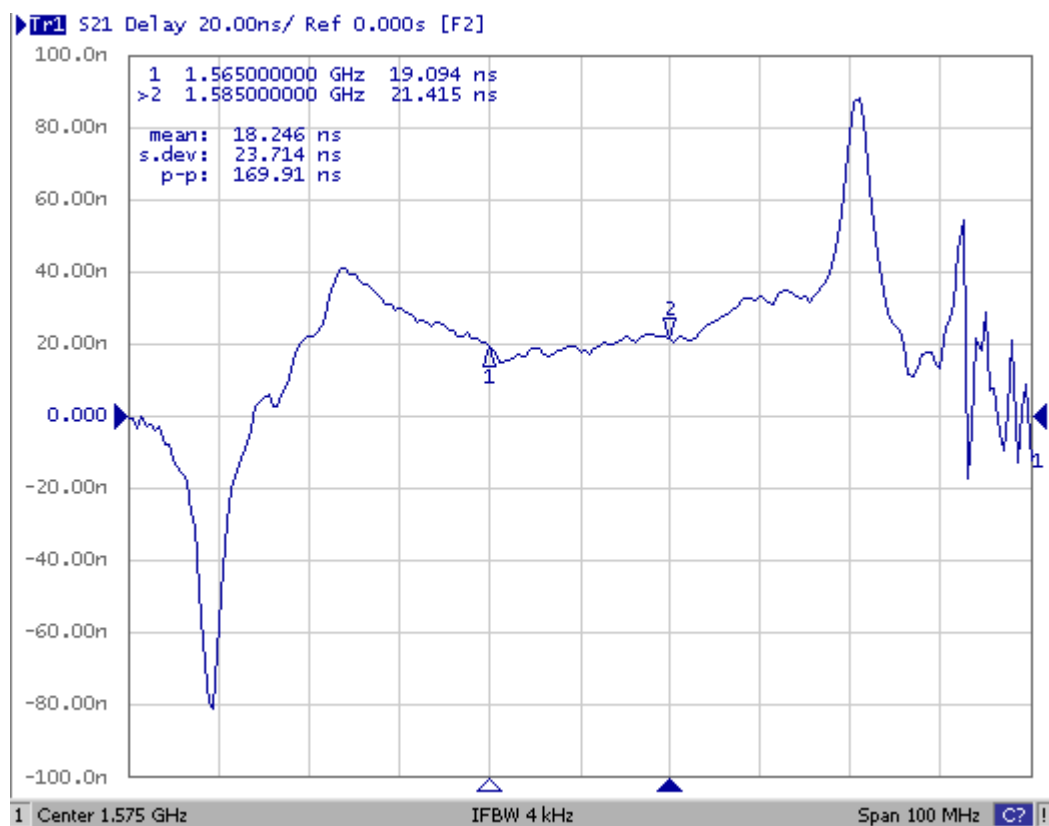


F. Frequency Characteristics :

Transfer function

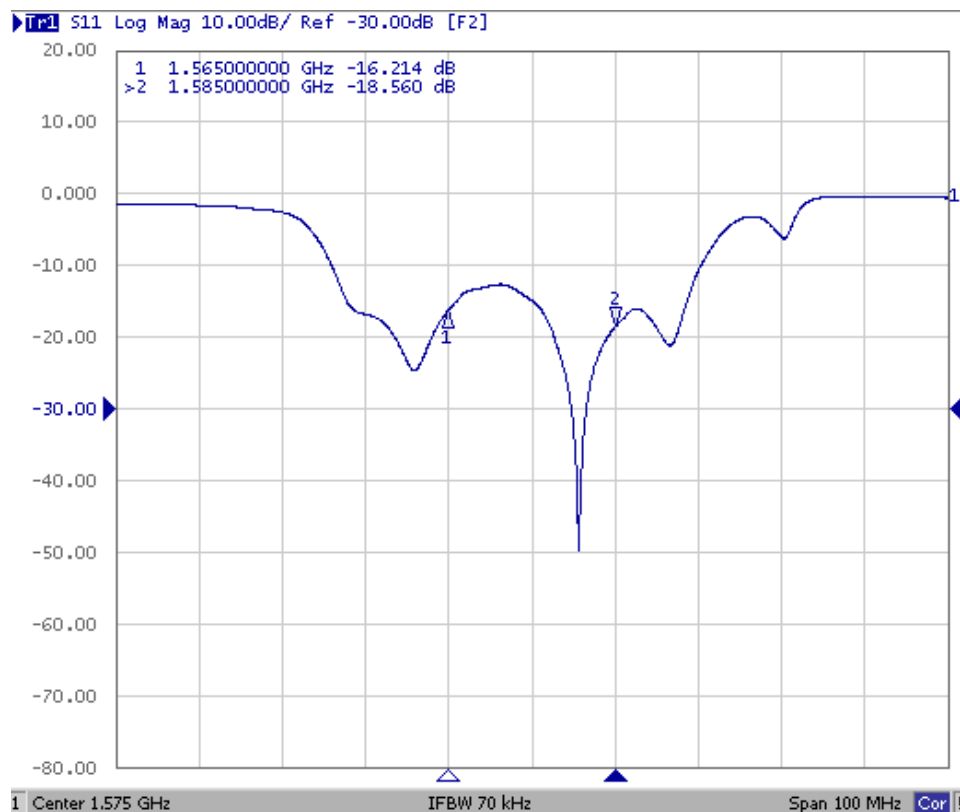


Group delay ripple :

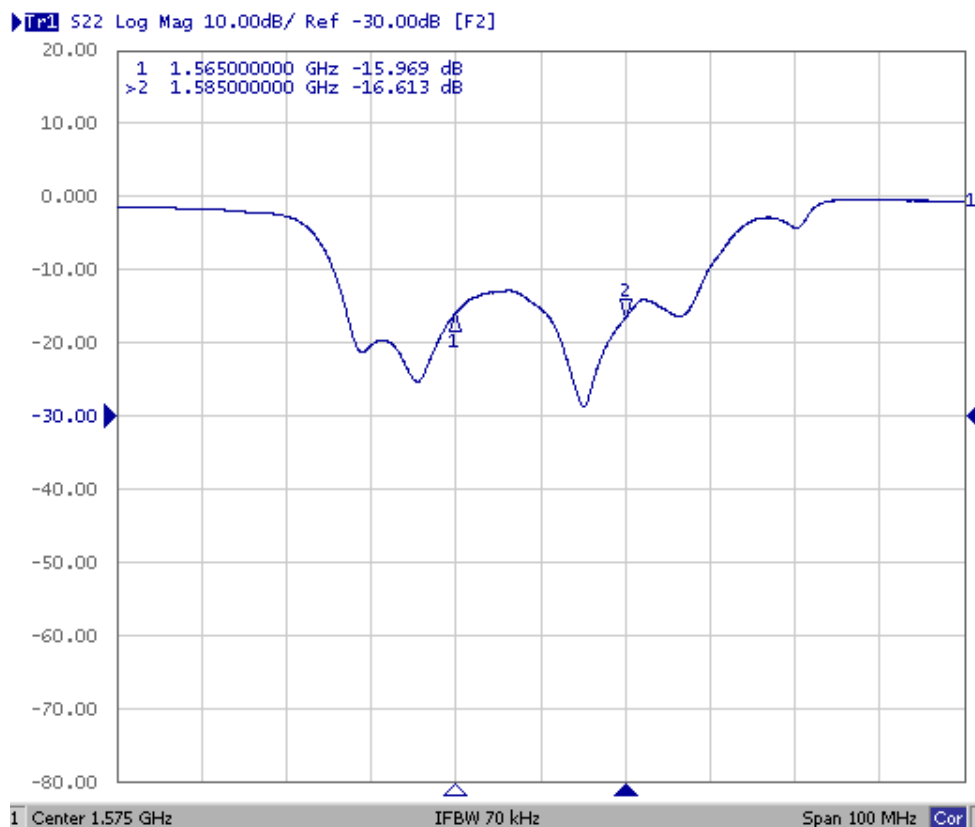


Reflection Functions :

Return Loss--S11

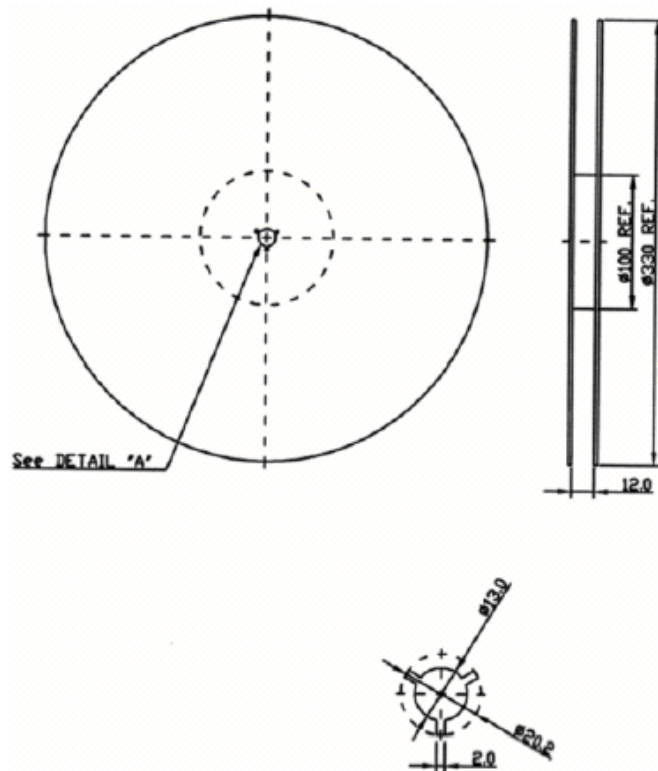


Return Loss—S22

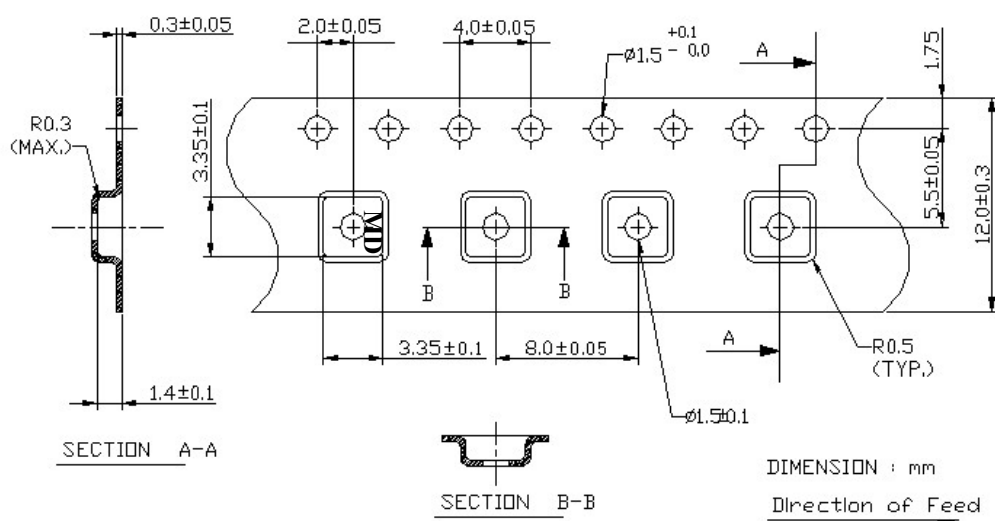


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

