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 1649.5 MHz SMD 3.0X3.0 mm (BW=42MHz)

TST Part No.: TA1453A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau _____

Approved by:_____ Francis Chen _____

Date:_____ 1, 18, 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 1649.5 MHz

MODEL NO.:TA1453A REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

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

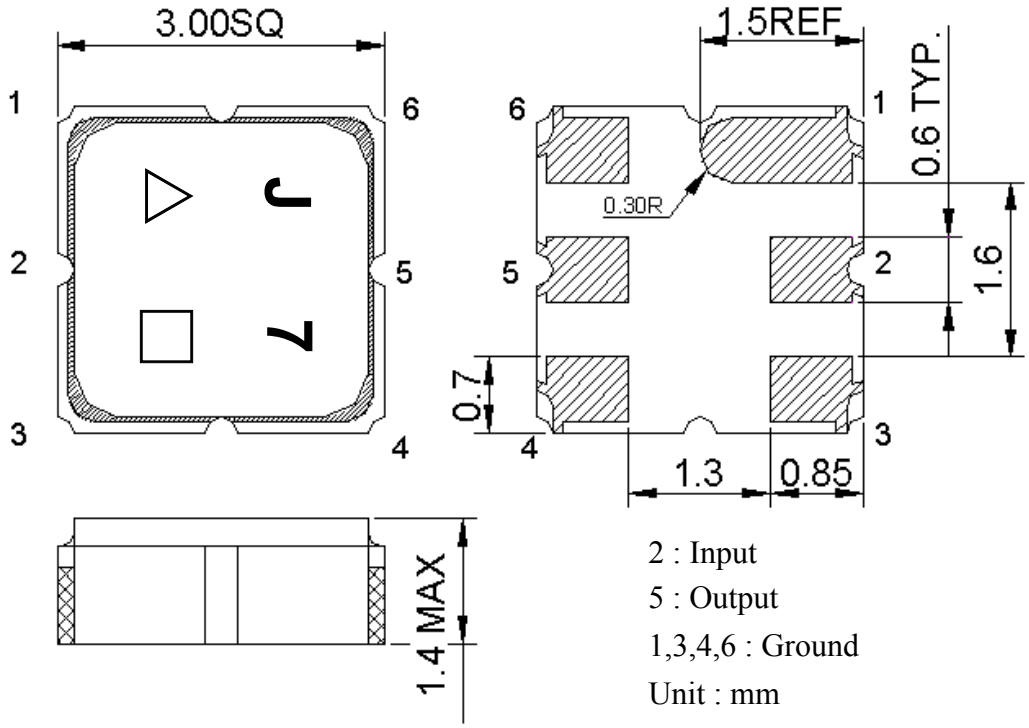
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single ended) : Zs = 50 Ω

Terminating load impedance (single ended) : Z_L = 50 Ω

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency **Fc**	MHz	-	1649.5	-	-
Bandwidth	MHz	42	67	-	-
Insertion Loss (**Fc**±21 MHz)	dB	-	4	5	
Amplitude Ripple (**Fc**±21 MHz)	dB	-	1.2	2	-
VSWR (**Fc**±21 MHz)		-	1.7	2.5	-
Attenuation (reference level from 0 dB)					
DC ~ 1576.5 MHz	dB	40	49	-	-
1593 MHz	dB	35	54	-	-
1593 ~ 1605 MHz	dB	19	41	-	-
1751 MHz	dB	25	44	-	-
2400 ~ 2500 MHz	dB	40	44.5	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

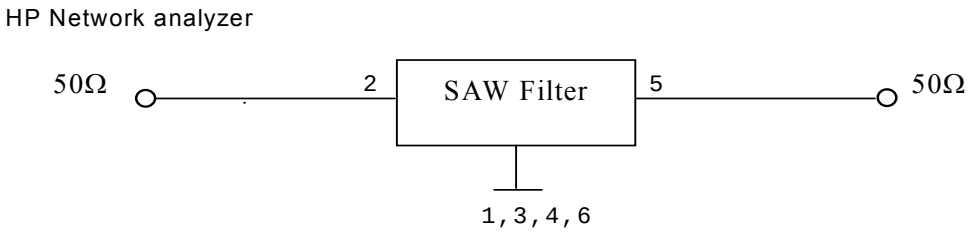
C.OUTLINE DRAWING:



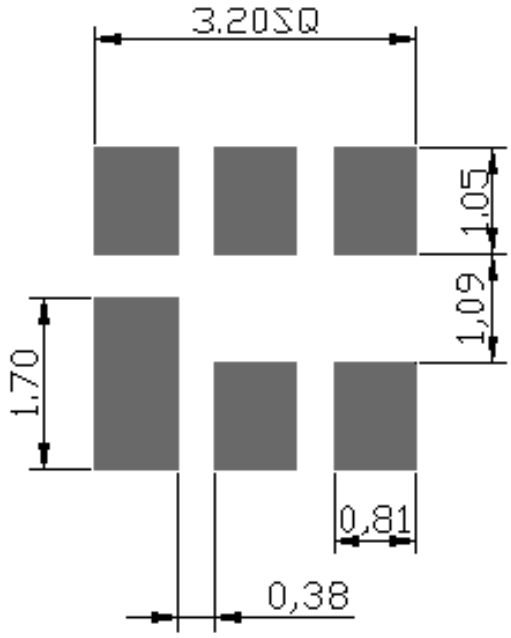
△ : Year Code (2009->9, 2010->0,…, 2018->8)

□ : Date Code (W01->A,W02->B,…W27->a,…,W52->z)

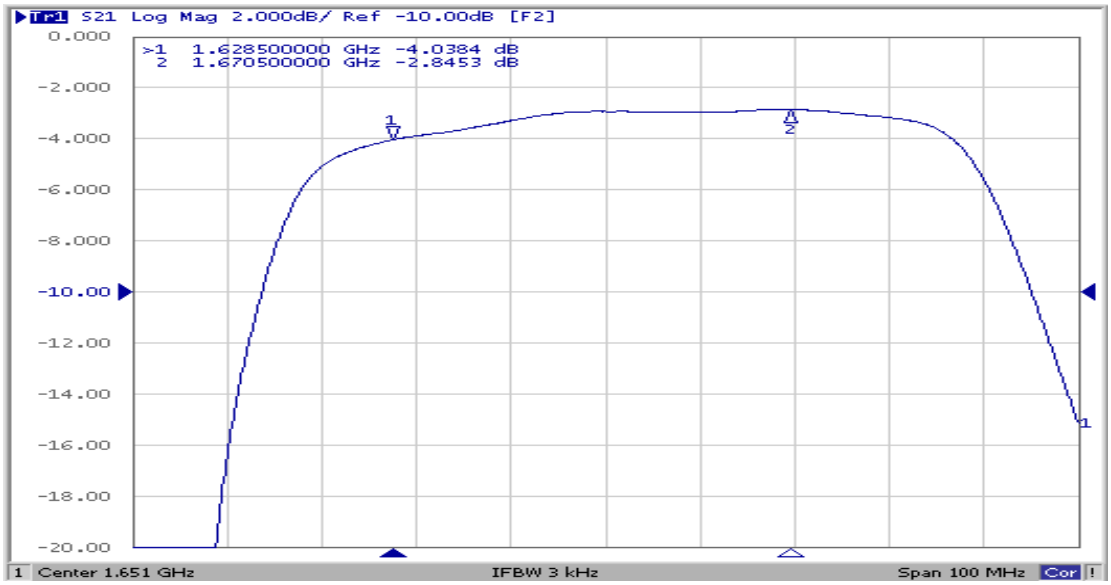
D. MEASUREMENT CIRCUIT:

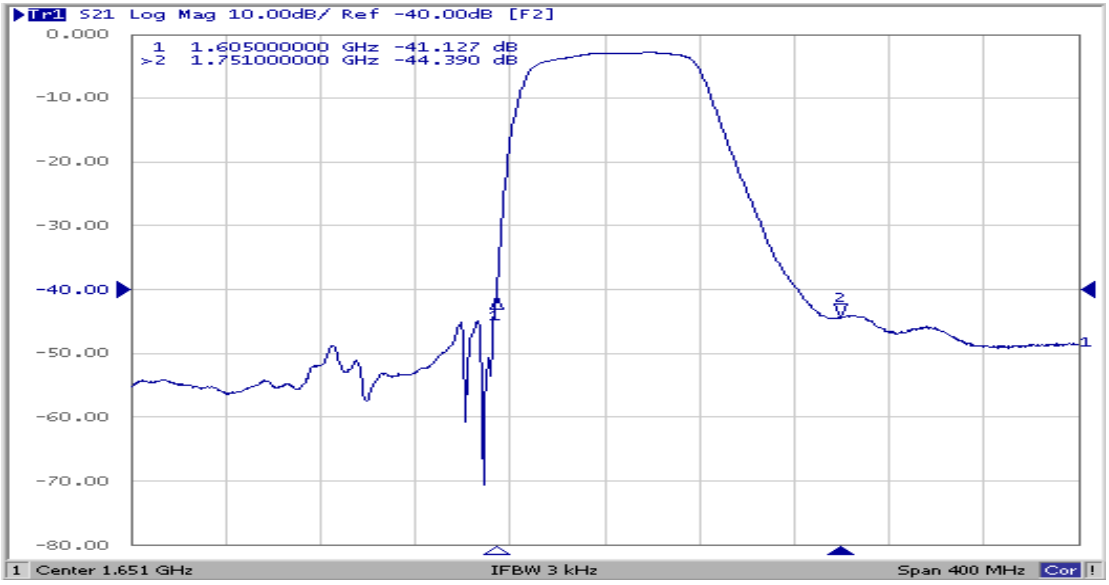


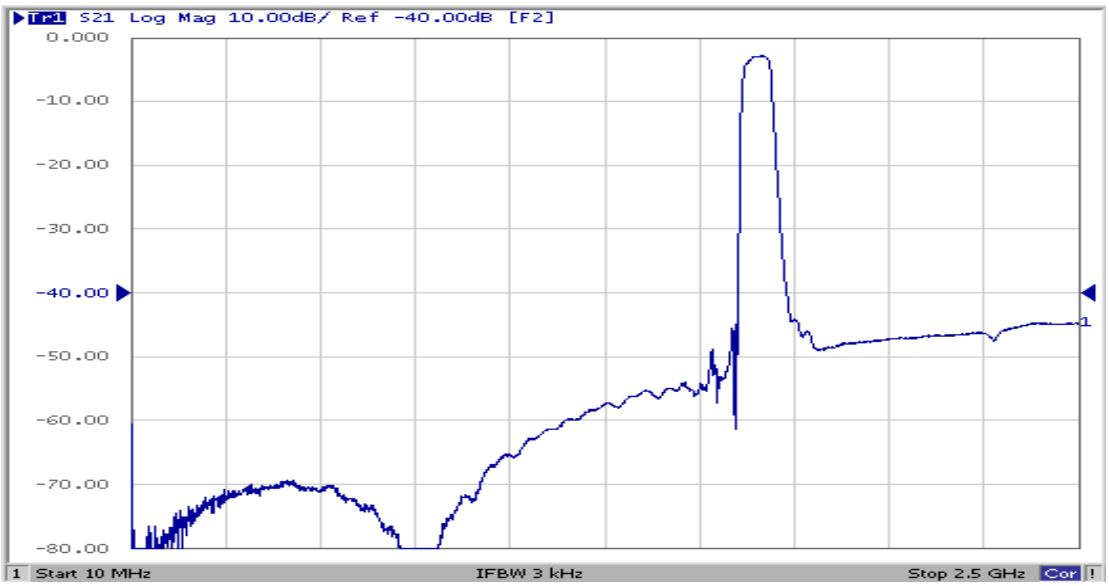
E. PCB Footprint:



F. Frequency Characteristics :

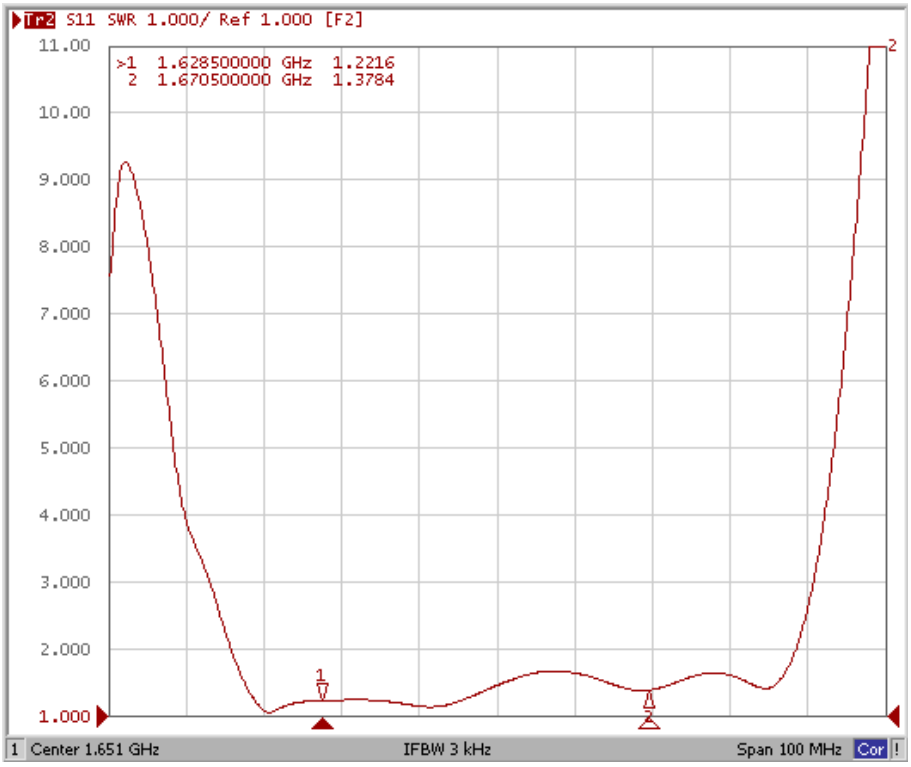




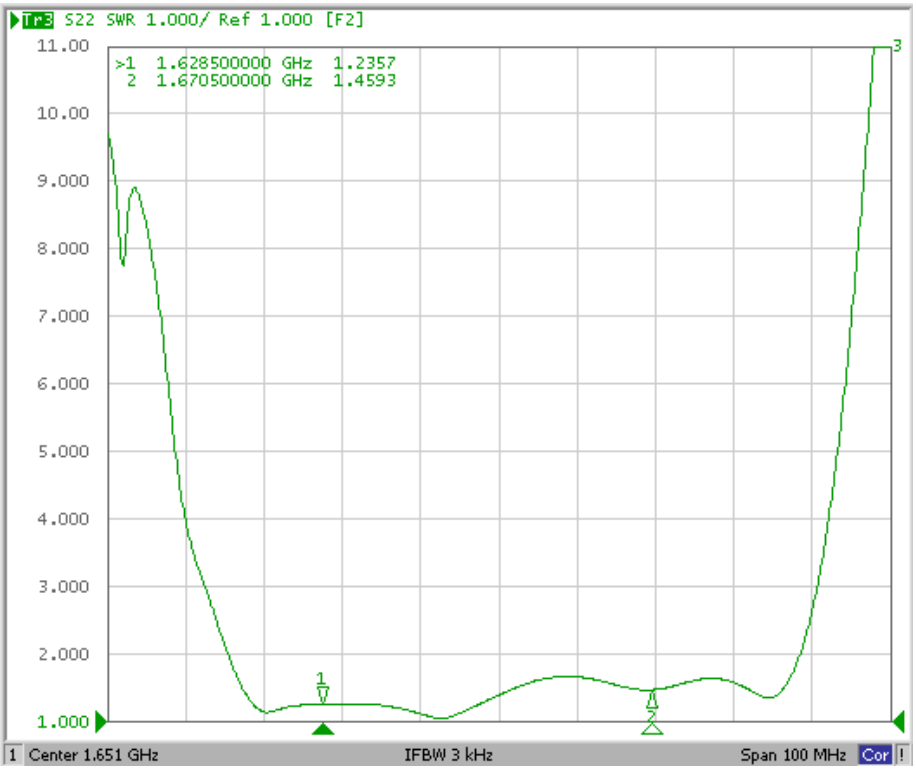


Reflection Functions :

S11

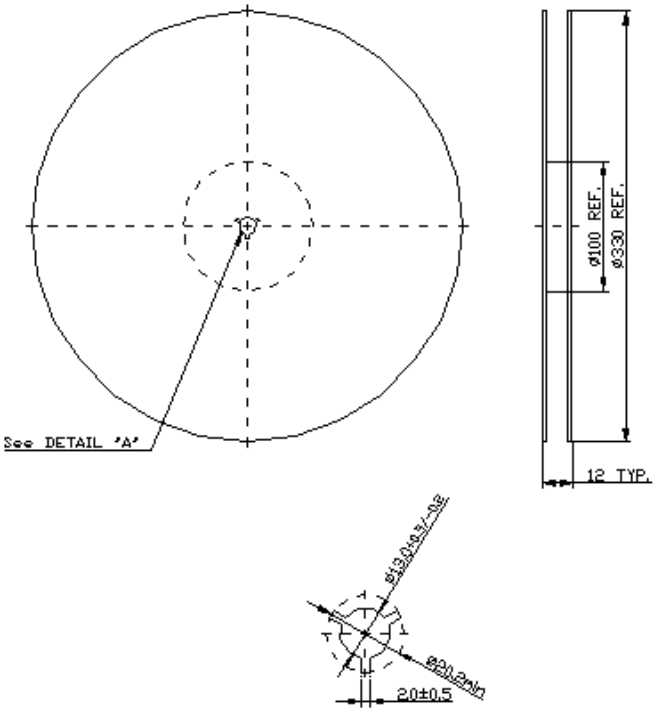


S22

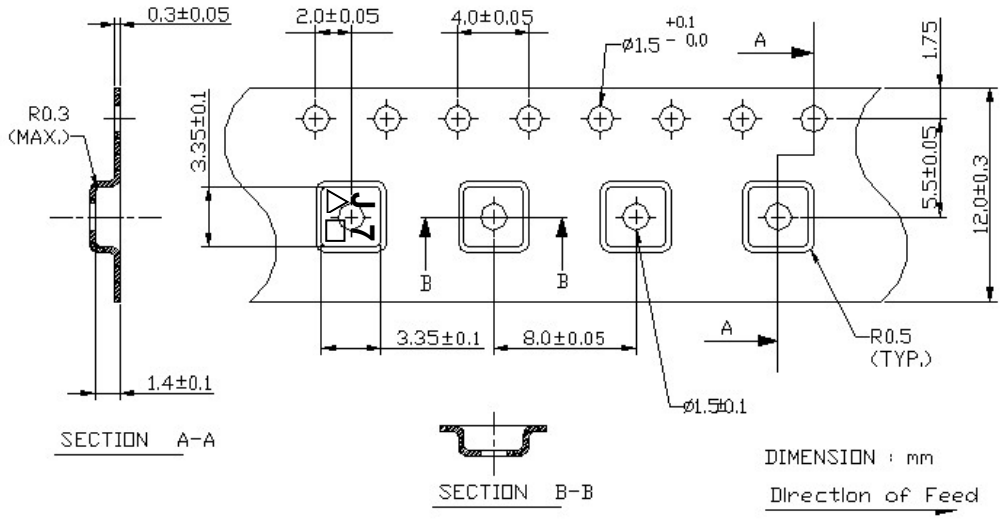


G. PACKING:

1. REEL DIMENSION



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.