



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 1575.42 MHz SMD 2.5X2.0 mm

TST Part No.: TA0531A

Customer Part No.: _____

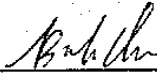
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 3, 30, 2010

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

MODEL NO.: TA0531A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +95°C
4. Storage Temperature: -40°C to +105°C

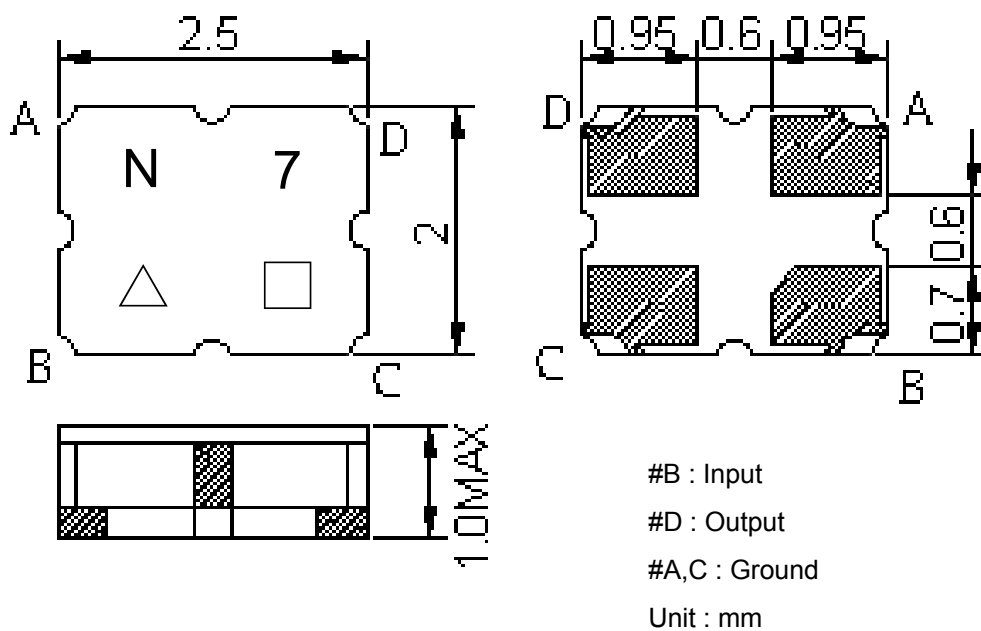
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	F_c (MHz)	-	1575.42	-
Insertion loss (1570.42~1580.42 MHz)	IL (dB)	-	1.8	3
Amplitude ripple (1570.42~1580.42 MHz)	(dB)	-	0.1	1.7
Attenuation (Reference level from 0 dB)				
D.C. ~ 1400	MHz (dB)	35.0	37.0	-
1400 ~ 1475	MHz (dB)	30.0	34.0	-
1475 ~ 1525	MHz (dB)	25.0	37.0	-
1625 ~ 1640	MHz (dB)	30.0	45.0	-
1640 ~ 2000	MHz (dB)	32.0	34.0	-
2000 ~ 3000	MHz (dB)	20.0	28.0	-
VSWR (1570.42~1580.42 MHz)		-	1.3	2.0
Source impedance	Z_s (Ω)	-	50	-
Load impedance	Z_L (Ω)	-	50	-

Note1. The standard definitions is in JIS C 6703

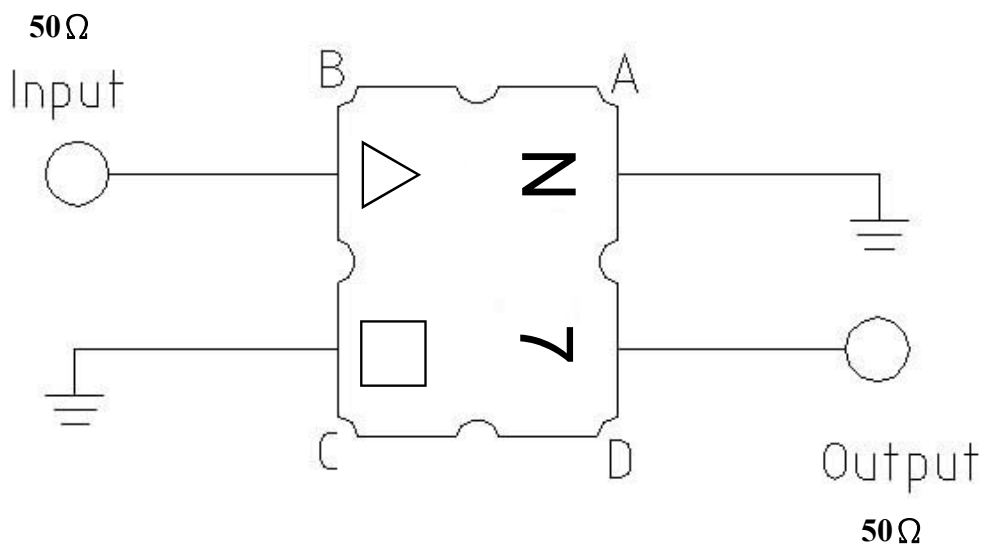
C. OUTLINE DRAWING:



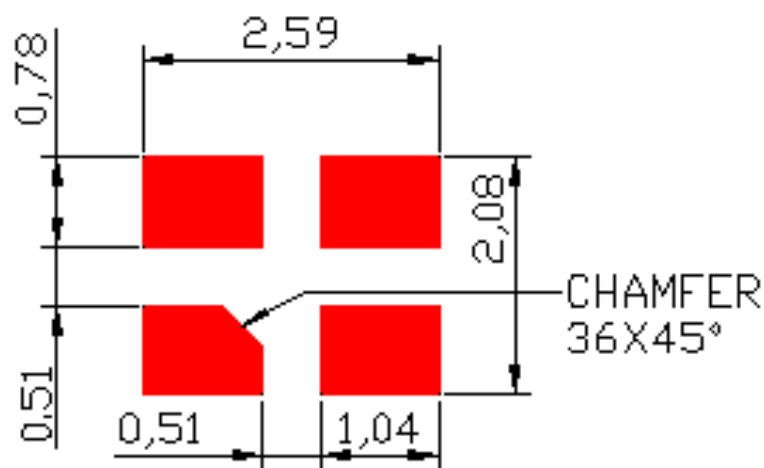
△ : Year Code (2009->9, 2010->0,..., 2018->8)

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

D. MEASUREMENT CIRCUIT:

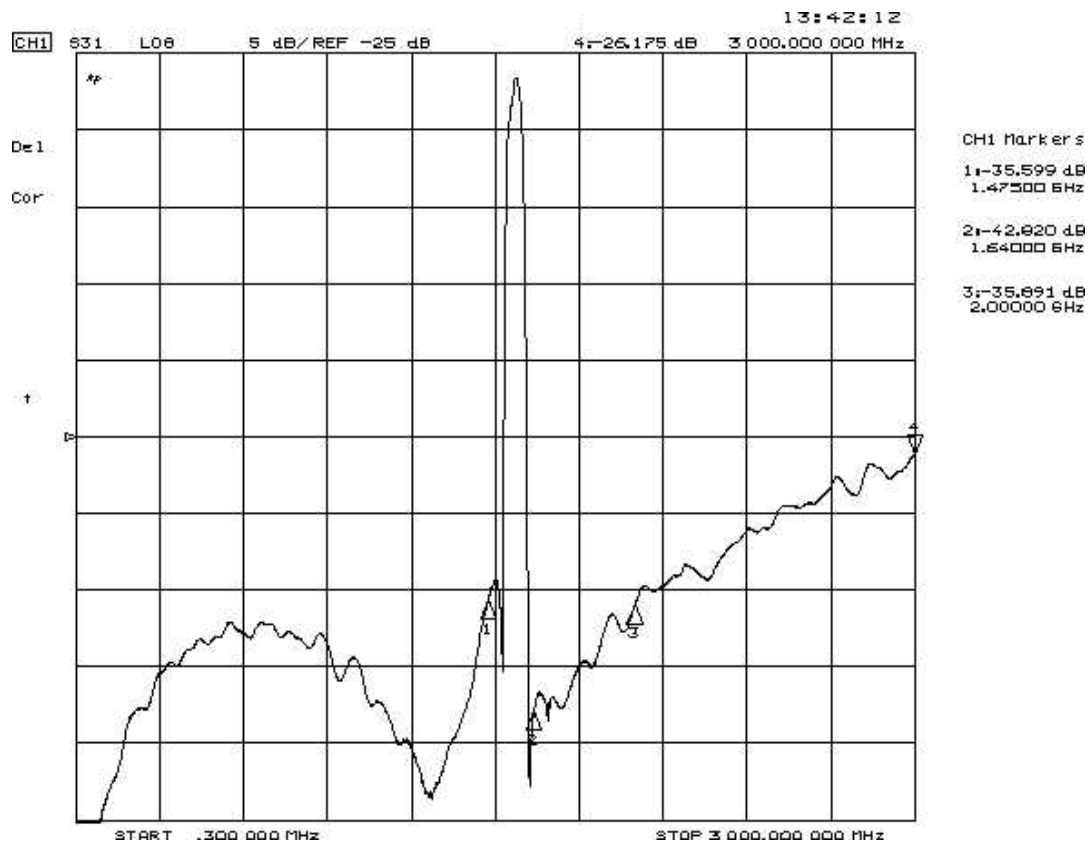
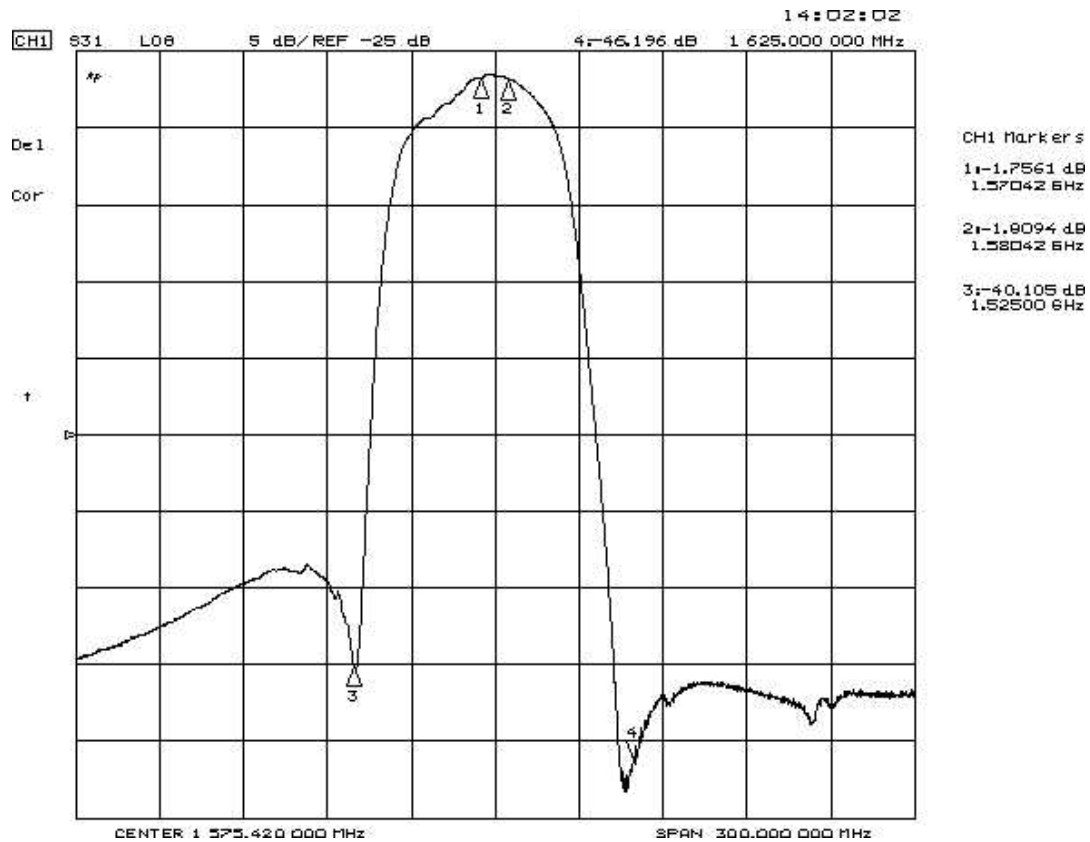


E. PCB Footprint:



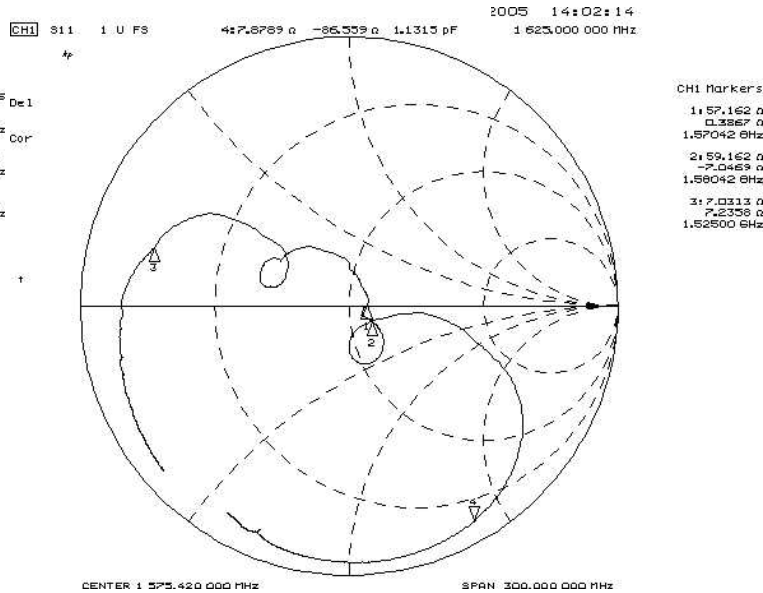
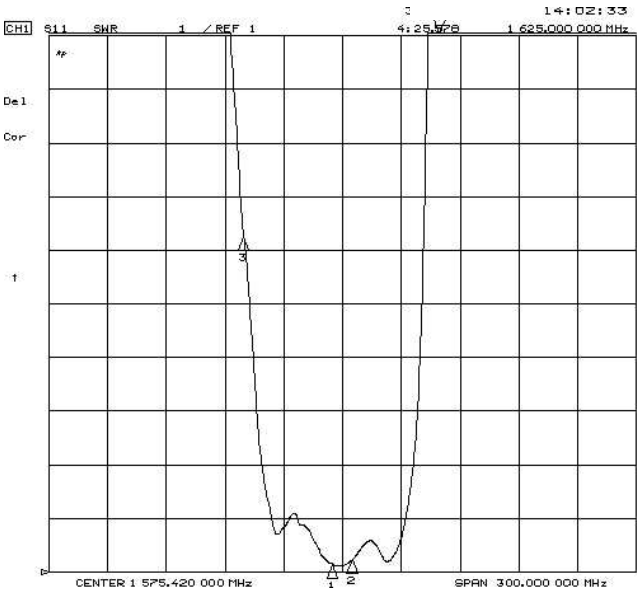
F. Frequency Characteristics :

Transfer function

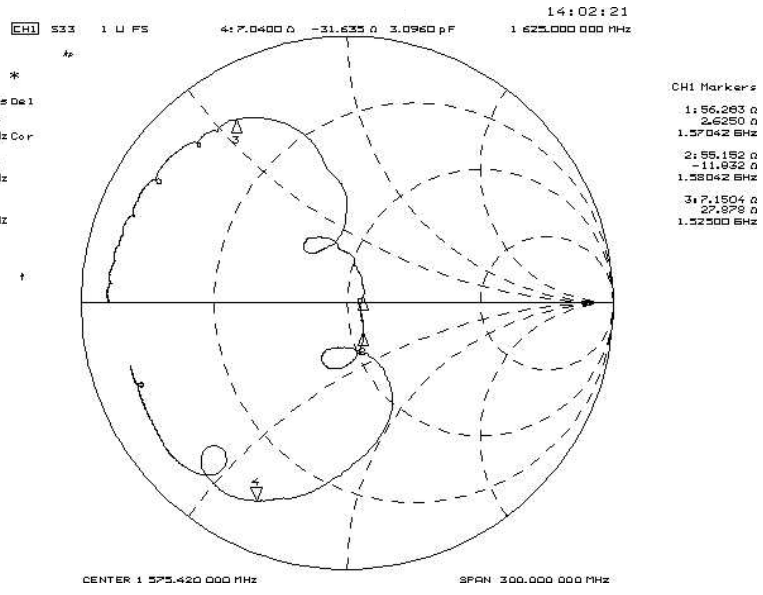
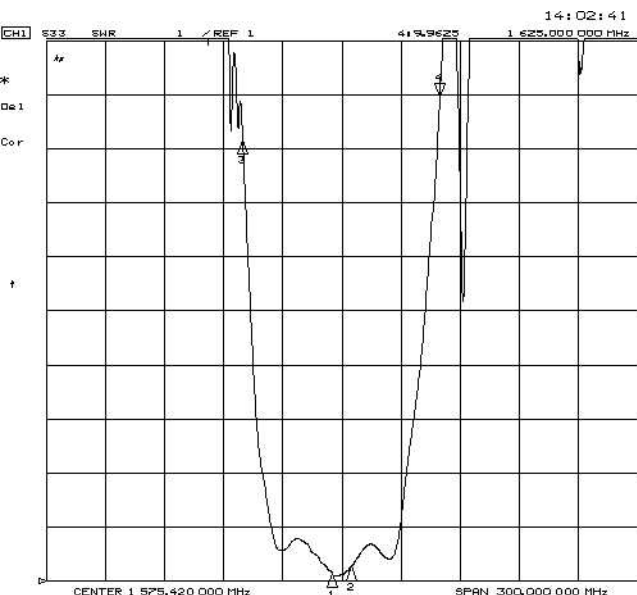


Reflections Functions :

S11 VSWR

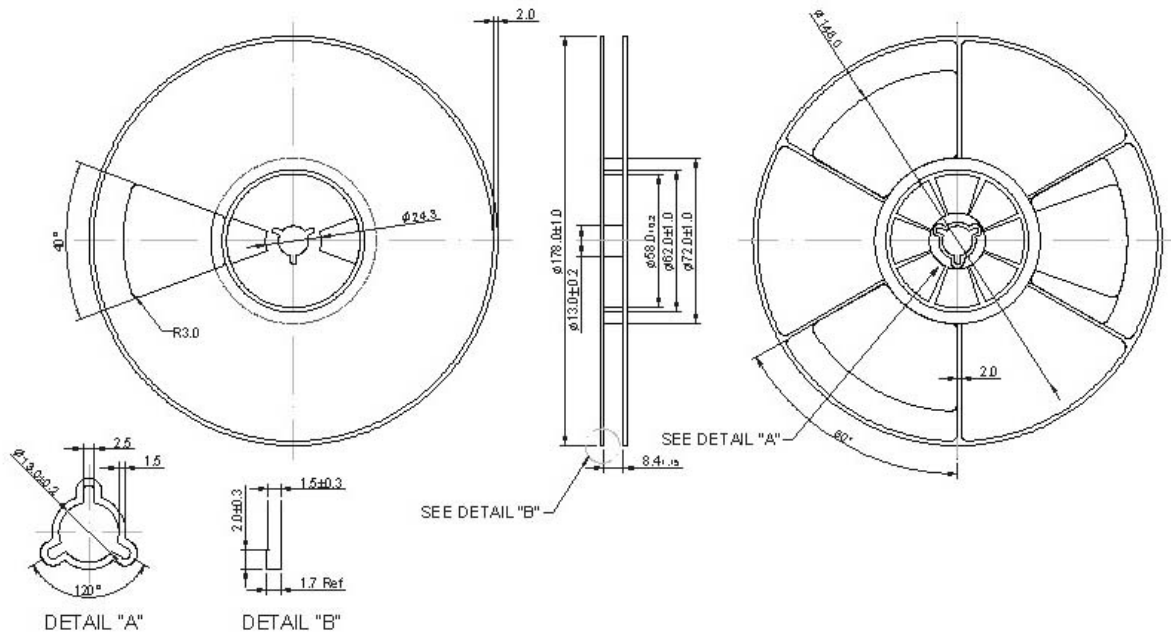


S22 VSWR

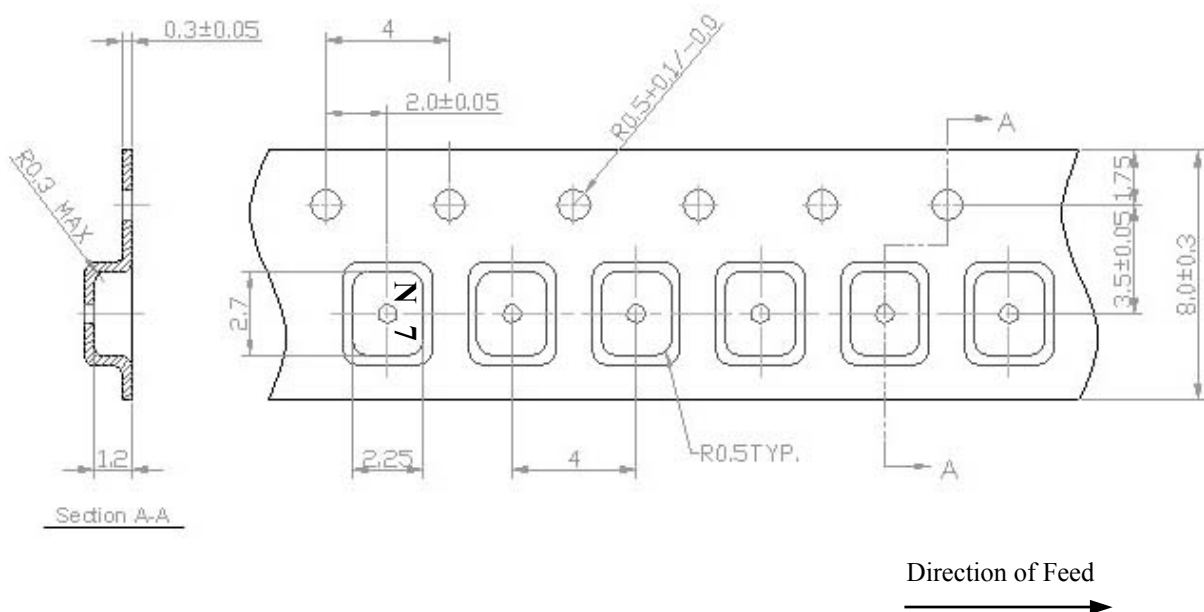


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

