



TAI-SAW TECHNOLOGY CO., LTD.

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

Issued Date: Feb, 2, 2007

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

TST Parts No.: TA0654A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 2, 2, 2007



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SAW Filter 1575.42MHz

MODEL NO.:TA0654A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -55°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

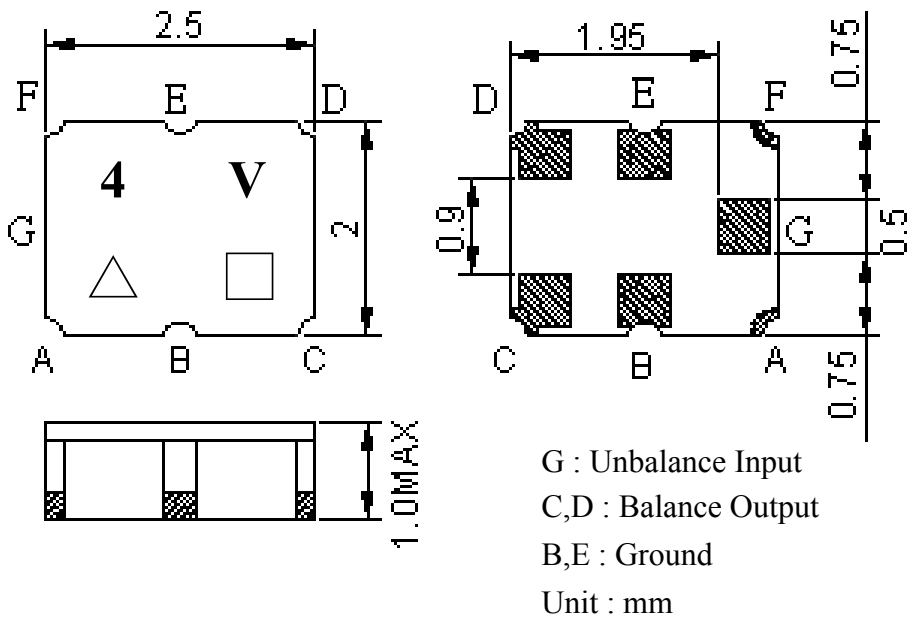
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single-ended) : $Z_s = 50 \Omega$

Terminating load impedance (differential) : $Z_L = 100 \Omega$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency	Fc	MHz	-	1575.42	-
Max. Insertion Loss (1574.42~1576.42 MHz)	IL	dB	-	1.35	1.9
Amplitude ripple (1574.42~1576.42 MHz)		dB	-	0.1	0.5
Output amplitude balance ($ S_{31}/S_{21} $) (1574.42~1576.42 MHz)		dB	-2	1.3	2
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) (1574.42~1576.42 MHz)		deg	10	1	10
VSWR (1574.42~1576.42 MHz)			-	1.3	1.8
Attenuation					
100~960 MHz		dB	40	48	-
960~1425 MHz		dB	35	46	-
1425~1475 MHz		dB	30	54	-
1475~1515 MHz		dB	20	39	-
1515~1525 MHz		dB	17	39	-
1625~1635 MHz		dB	12	22	-
1635~1675 MHz		dB	20	24.5	-
1675~1750 MHz		dB	30	34.5	-
1750~1805 MHz		dB	35	43.5	-
1805~1980 MHz		dB	40	50	-
1980~2400 MHz		dB	35	40	-
2400~3155 MHz		dB	40	56	-
3155~6000 MHz		dB	35	55	-

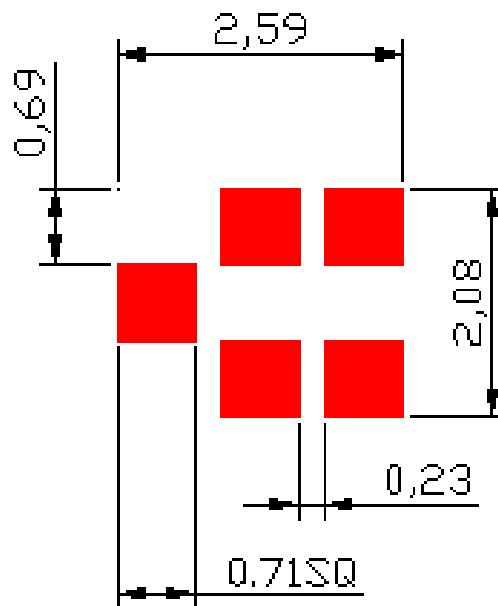
C.OUTLINE DRAWING:



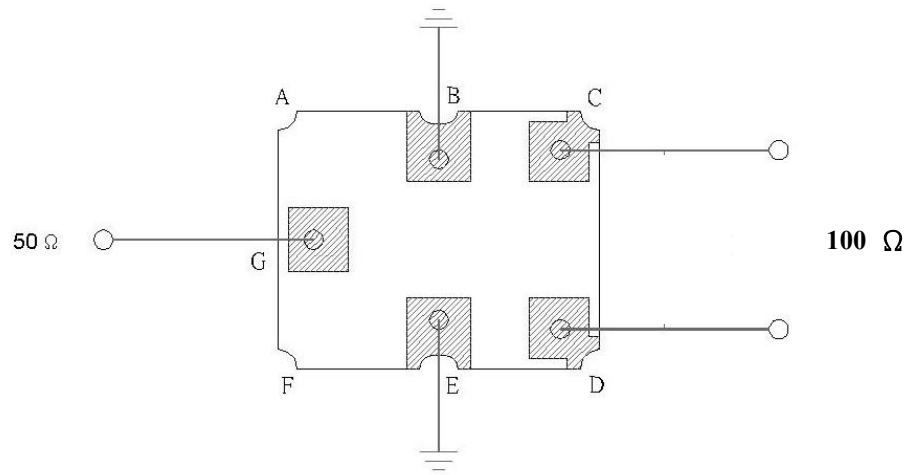
△ : Year Code (2006->6, ..., 2009->9)

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

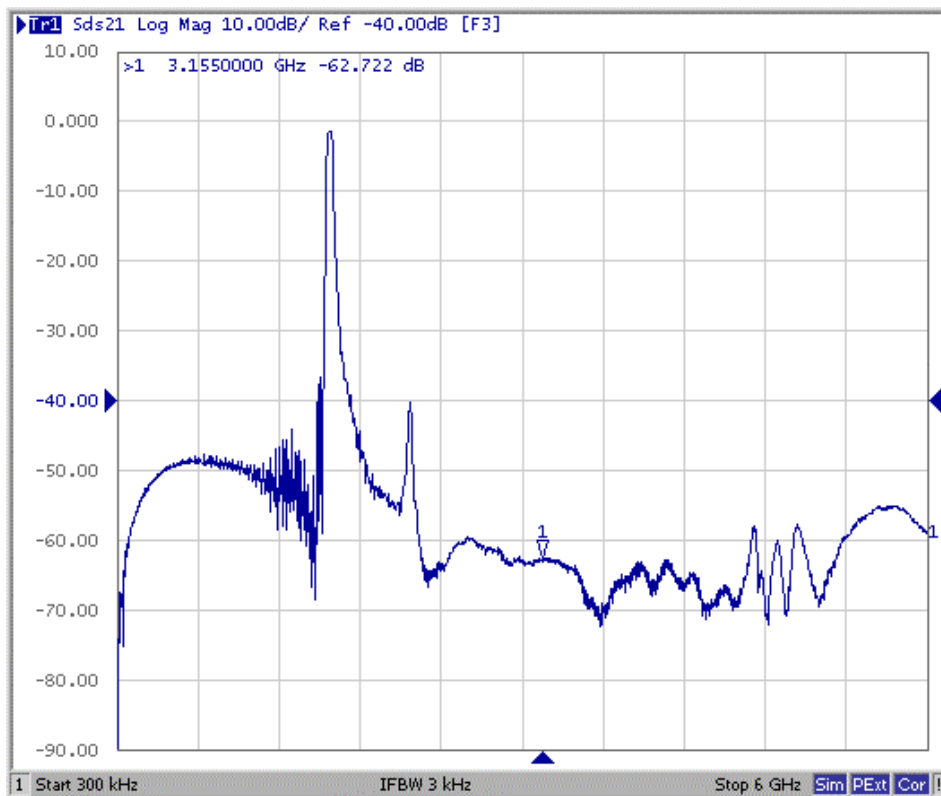
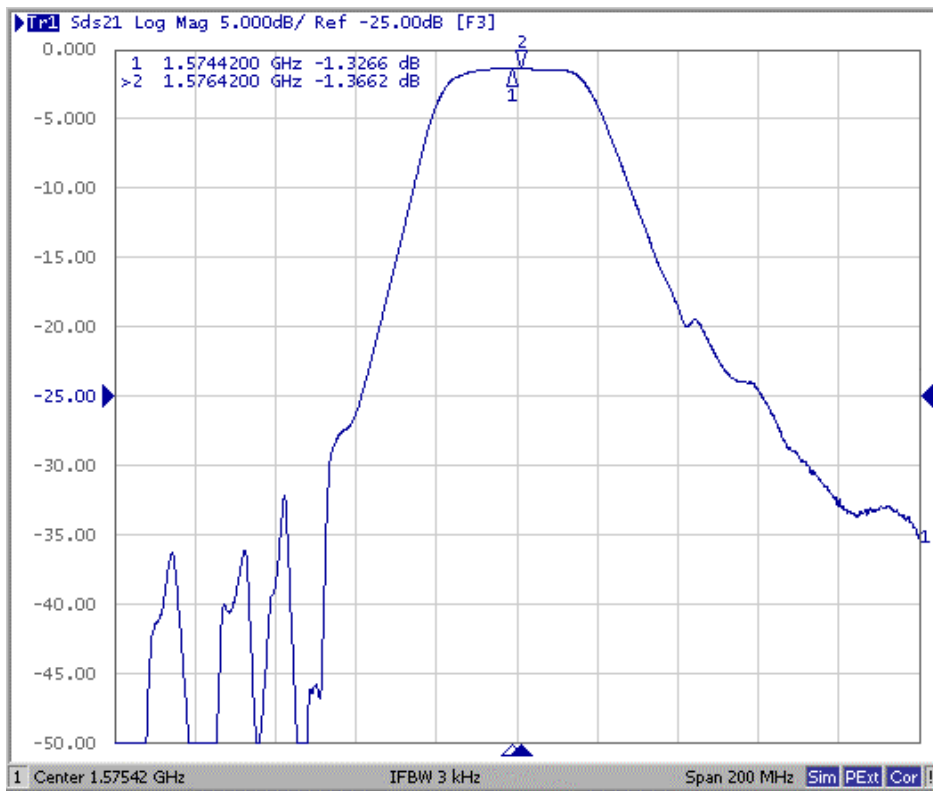
D. PCB Footprint:



E. MEASUREMENT CIRCUIT:

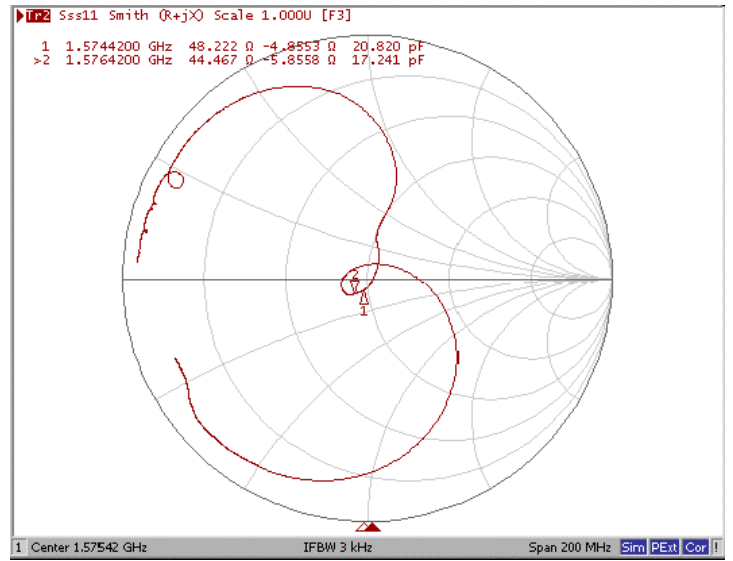
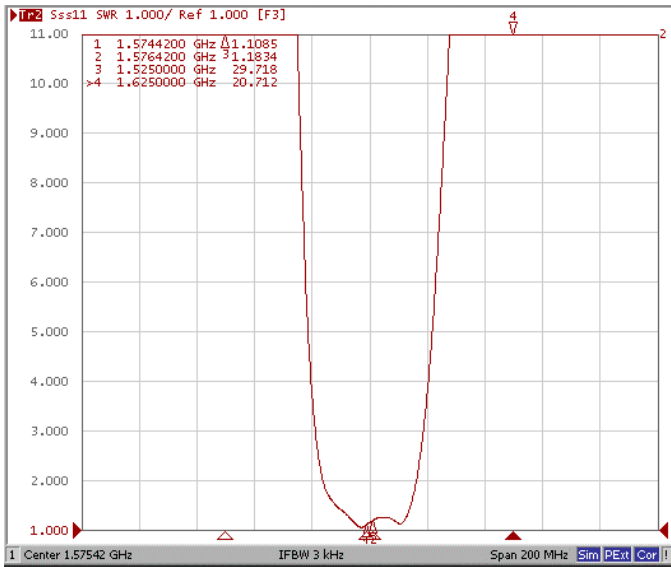


F. Frequency Characteristics :

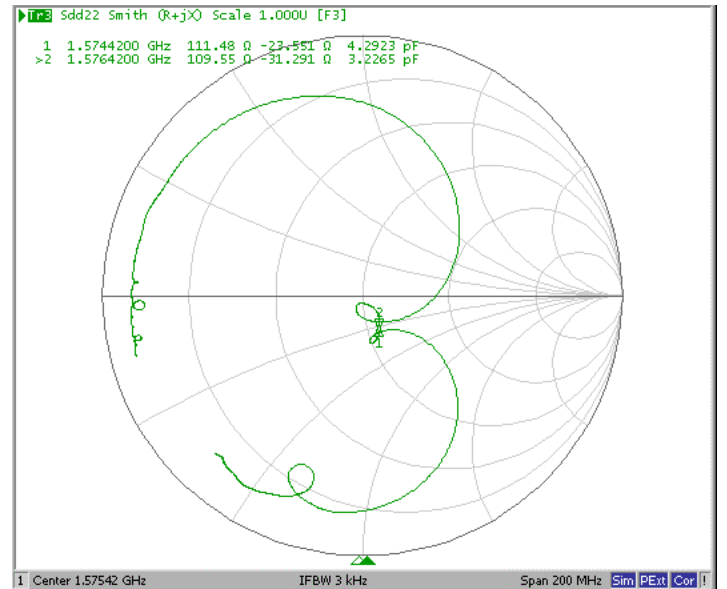
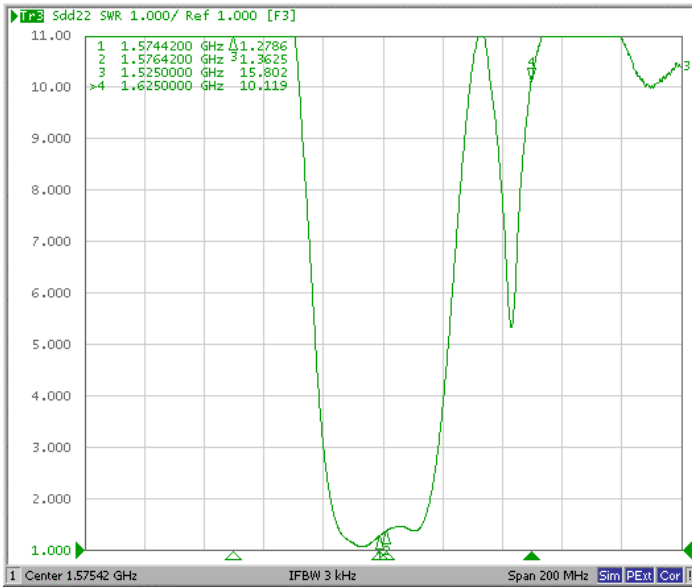


Reflection Functions :

S11



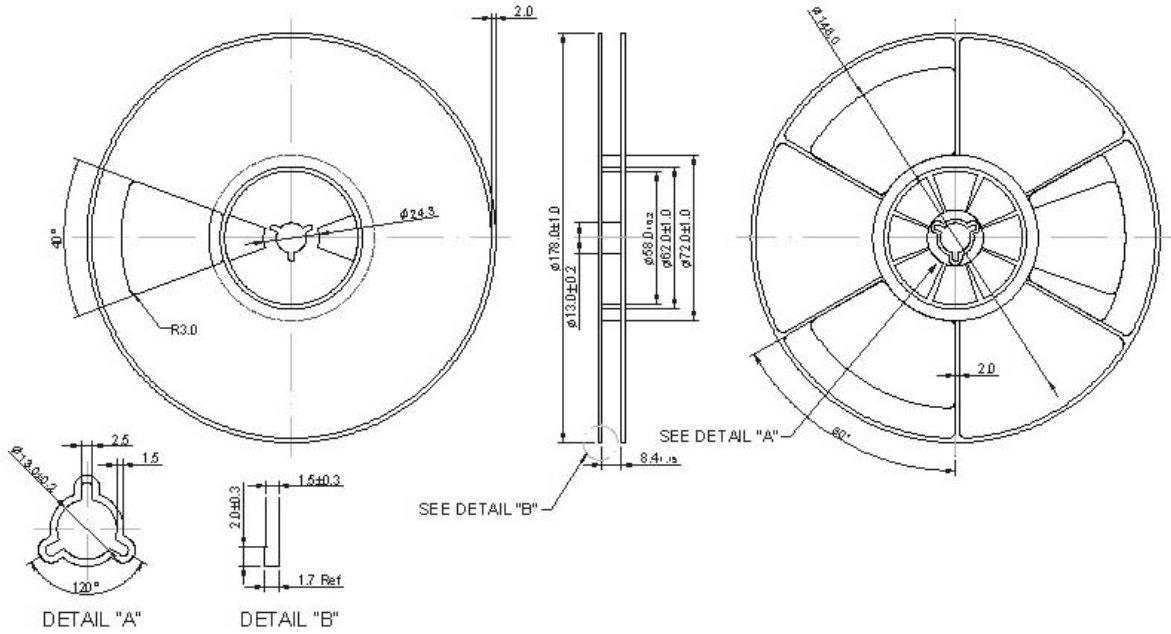
S22



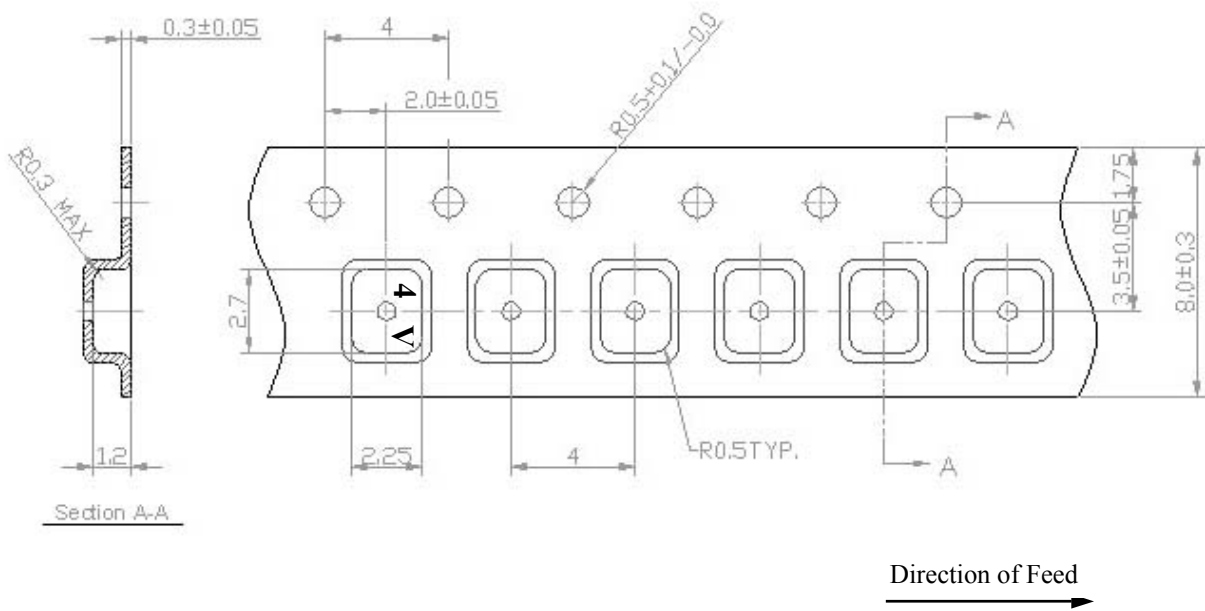
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7''=2000 ; 13''=10000)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

