



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Dec, 13, 2004

Product Name: SAW Filter 1575.42 MHz SMD 3X3 mm

TST Parts No.:TA0315A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 12, 13, 2004



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SAW Filter 1575.42 MHz for GPS

MODEL NO.: TA0315A

REV. NO.:2

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +75°C
2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Singled to Balanced operation

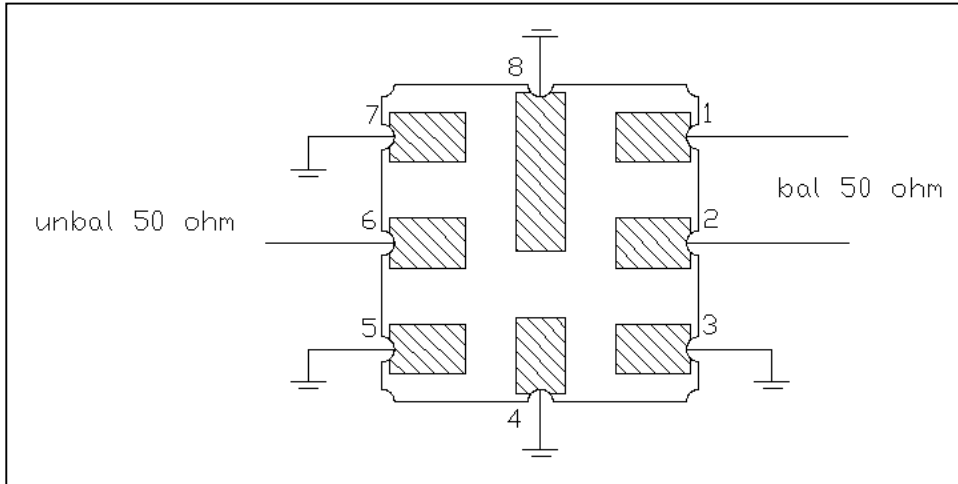
Terminating source impedance : $Z_s = 50 \Omega$ unbal.

Terminating load impedance : $Z_L = 50 \Omega$ bal.

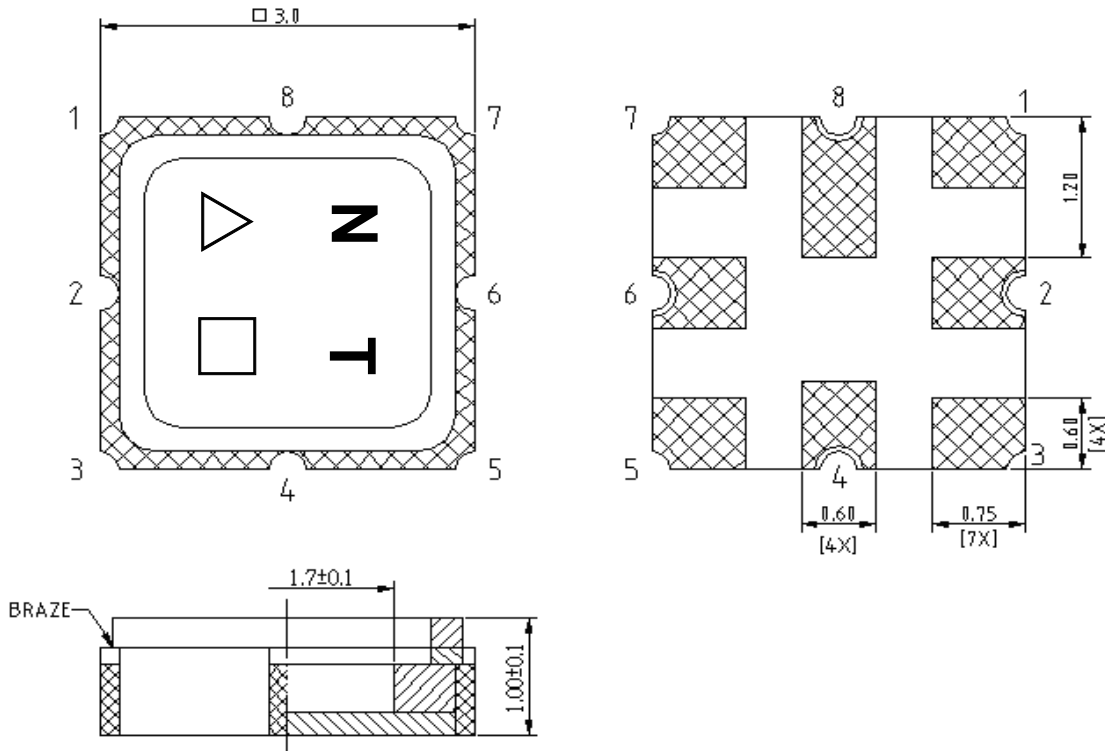
ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.
Center frequency F_c (dB)	-	1575.42	-
Insertion loss (1574.42~1576.42 MHz) I.L. (dB)	-	2.1	3.5
Amplitude ripple (1574.42~1576.42 MHz) (dB)	-	0.1	1.0
Attenuation (Reference level from 0 dB)			
100 ~ 1475 MHz (dB)	30	43	-
1475 ~ 1525 MHz (dB)	10	40	-
1625 ~ 1675 MHz (dB)	10	26	-
1675 ~ 1820 MHz (dB)	30	40	-
1820 ~ 3155 MHz (dB)	30	43	-
3155 ~ 6000 MHz (dB)	20	30	-
Input/Output VSWR (1574.42~1576.42 MHz)	-	1.2	2.0
Symmetry in band (referenced to the matched operating condition)			
Output amplitude balance ($ S_{31}/S_{21} $) (1574.42~1576.42 MHz) (dB)	-2.0	1	2.0
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) (1574.42~1576.42 MHz) degree	-20	10	20

C. MEASUREMENT CIRCUIT:



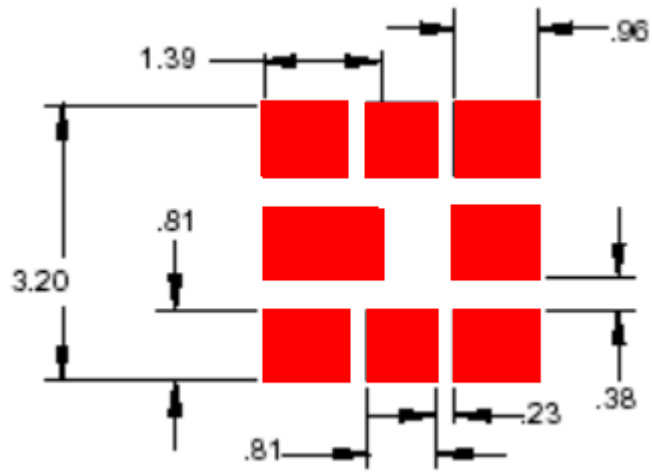
D. OUTLINE DRAWING:



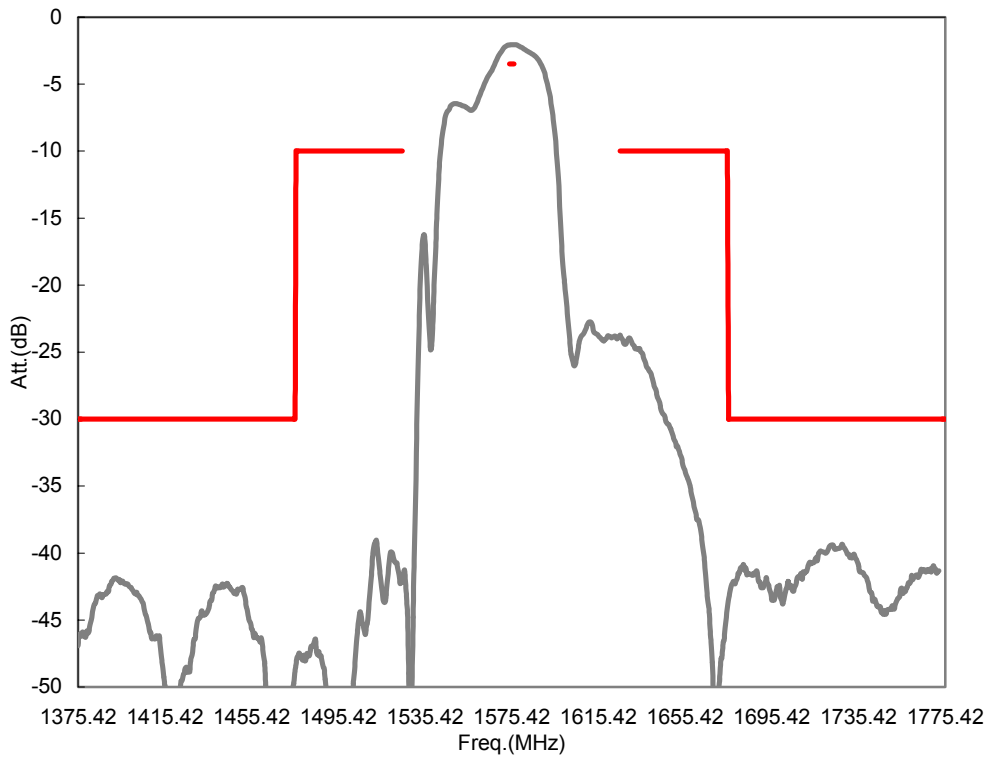
Pin configuration

- 6 Input, unbalanced
- 5 Input ground
- 1,2 Output, balanced
- 3,4,7,8 Case ground
- △ Year code
- Date code

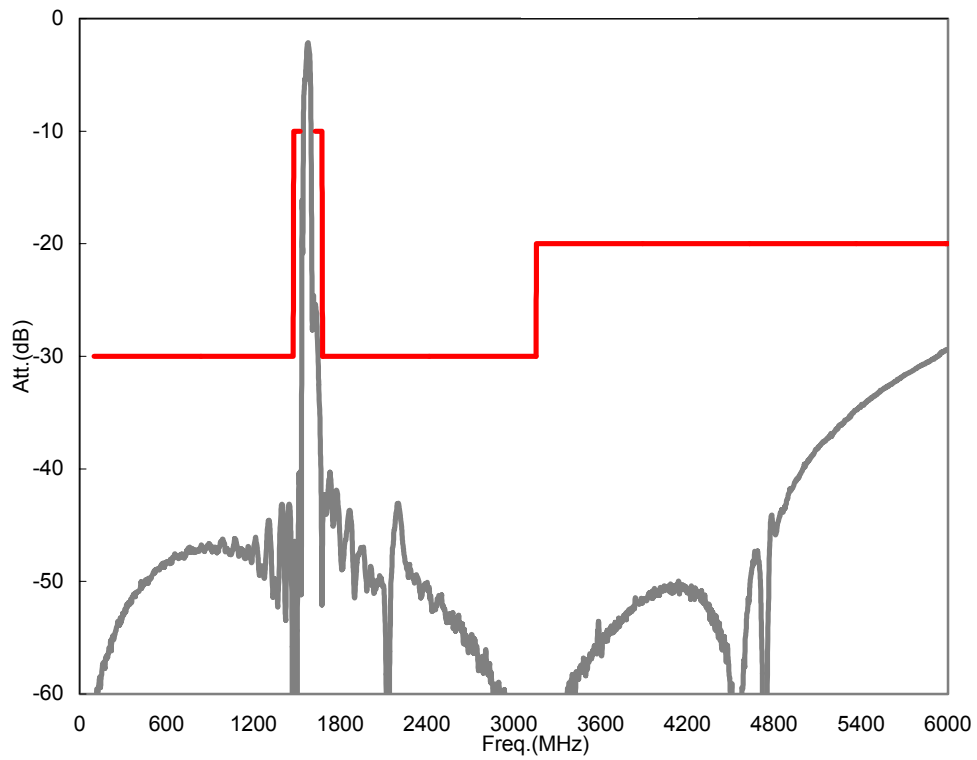
E. PCB Footprint:



F. Frequency Characteristics :
Transfer function (25 °C)

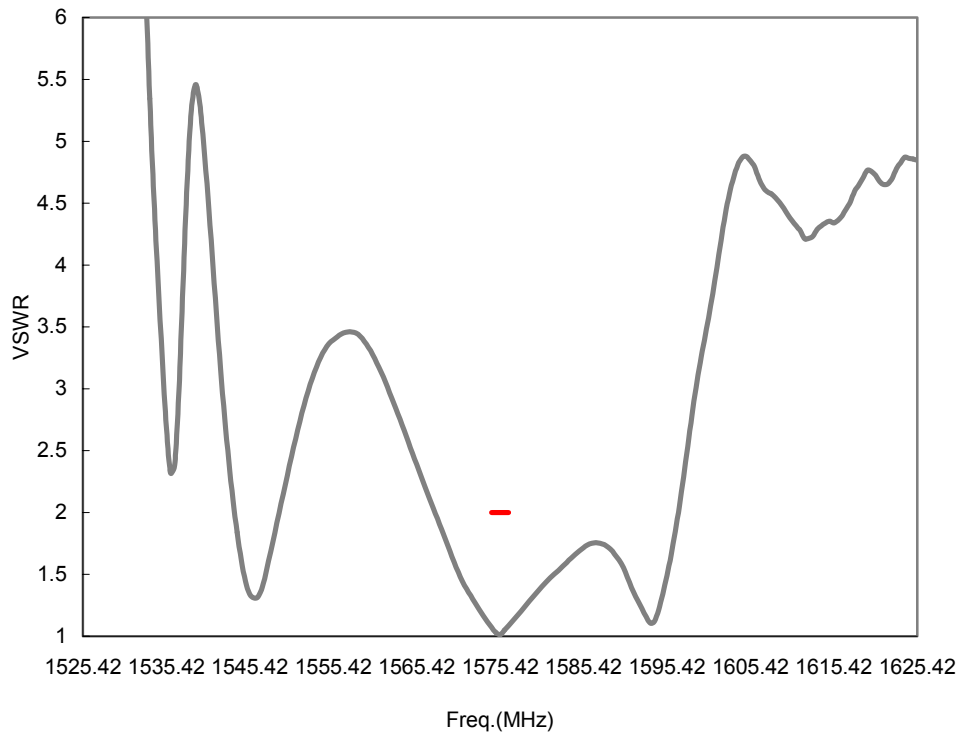


(wideband)

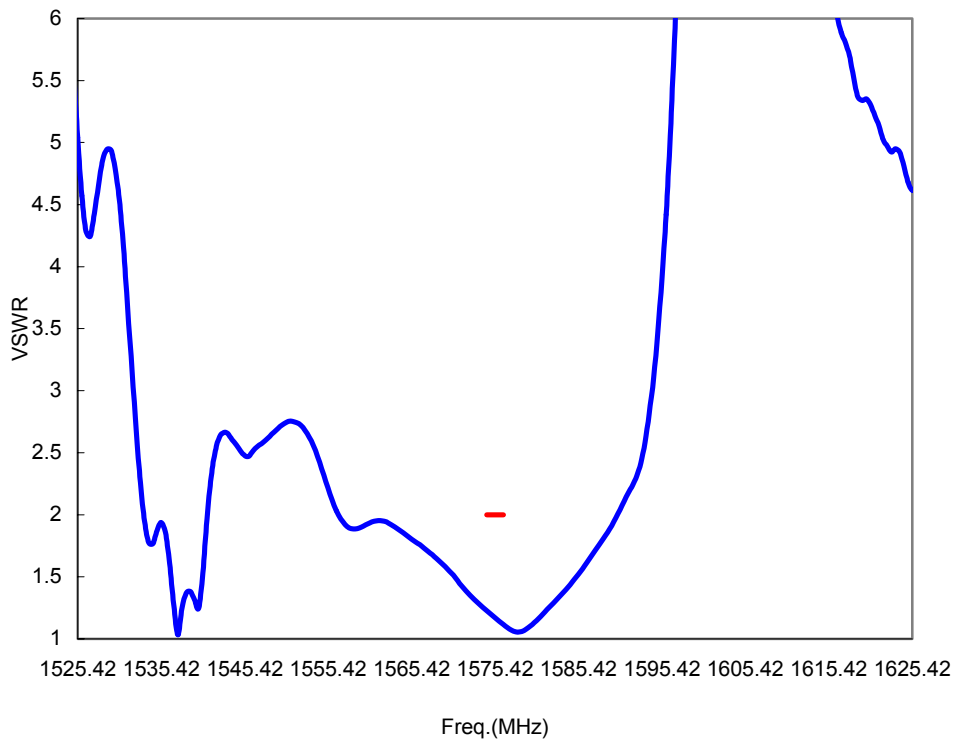


Reflections Functions :

Unbal. Input

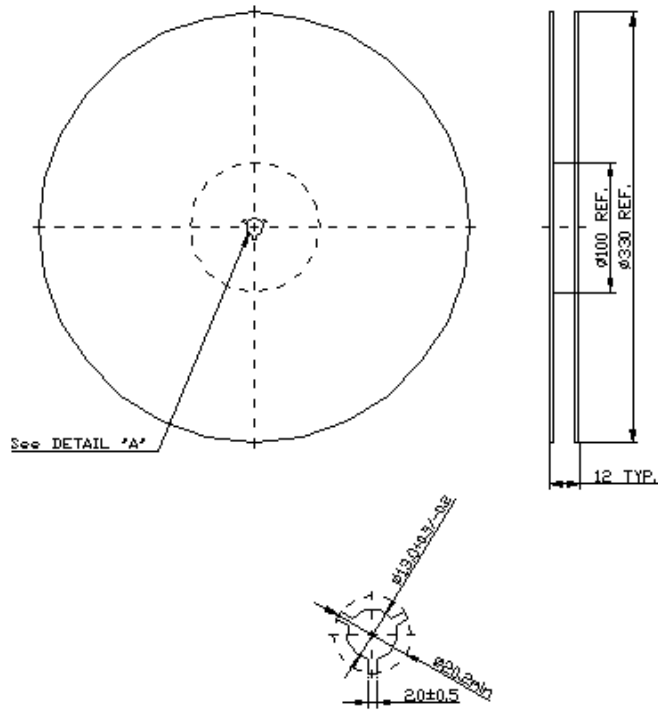


Bal. Output



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

