



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date: March, 7 , 2008

Product Name: SAW Filter 787.5 MHz SMD 5X5 mm

TST Parts No.:TA0823A

Customer Parts No.:\_\_\_\_\_

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

Checked by:\_\_\_\_\_ Bob Chau

Approval by:\_\_\_\_\_ Francis Chen

Date:\_\_\_\_\_ 3, 7, 2008



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## SAW Filter 787.5 MHz

MODEL NO.: TA0823A

REV. NO.:1

### A. MAXIMUM RATING:

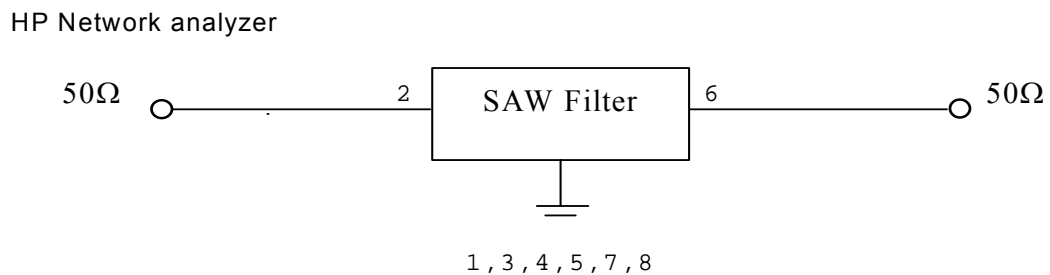
1. Input Power Level: 10 dBm
2. DC voltage: 5 V
3. Operating Temperature: -30°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

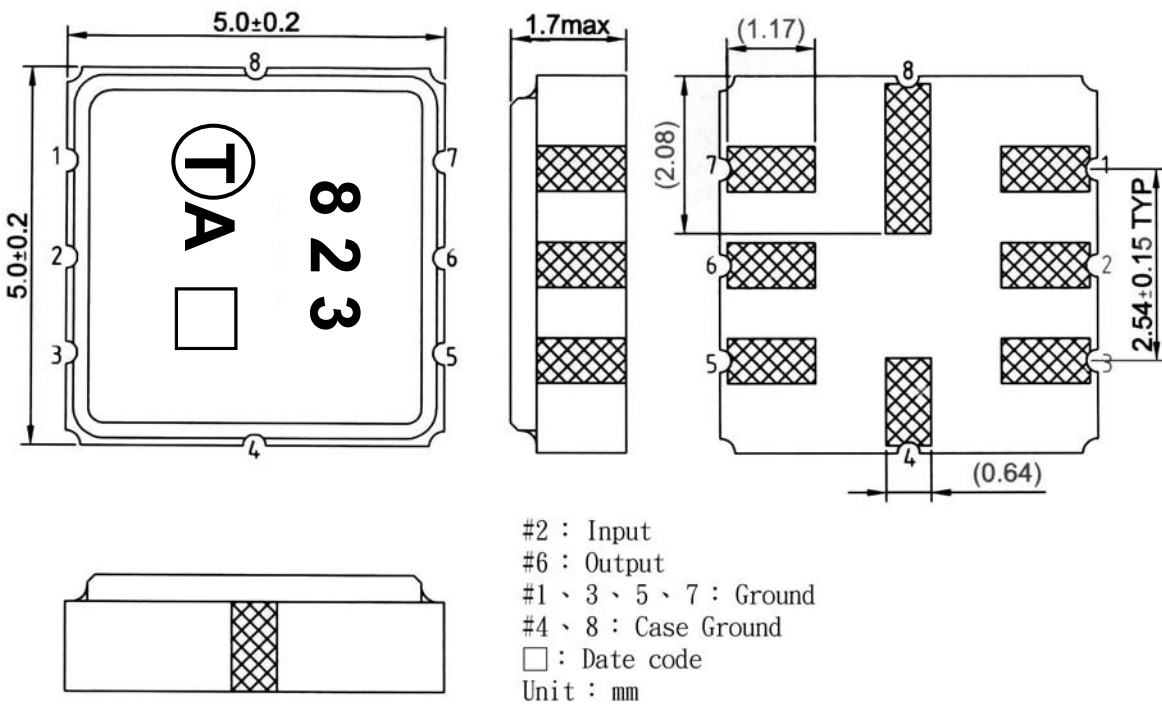
### B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
<b>Center frequency</b> <span style="float: right;"><b>Fo</b></span>	MHz	-	787.5	-
<b>Insertion loss (787~788MHz)</b> <span style="float: right;"><b>IL</b></span>	dB	-	2.4	5
<b>Amplitude ripple (787~788MHz)</b>	dB	-	0.3	1.5
<b>Return loss (787~788MHz)</b>	dB	10	16	-
<b>Group delay variation (787~788MHz)</b>	ns	-	10	50
<b>Attenuation (Reference level from 0 dB)</b>				
DC~737 MHz	dB	40	43	-
757~758 MHz	dB	40	43	-
764~776 MHz	dB	15	40	-
794~806 MHz	dB	10	29	-
828~2000 MHz	dB	40	48	-
<b>Source impedance</b> <span style="float: right;"><b>Zs</b></span>	$\Omega$	-	50	-
<b>Load impedance</b> <span style="float: right;"><b>ZL</b></span>	$\Omega$	-	50	-
<b>Temperature Coefficient</b>	ppm/°C	-	-36	-

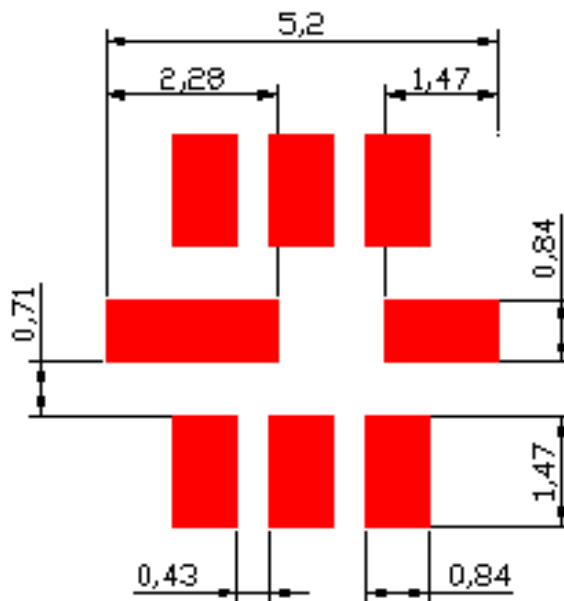
### C. MEASUREMENT CIRCUIT:



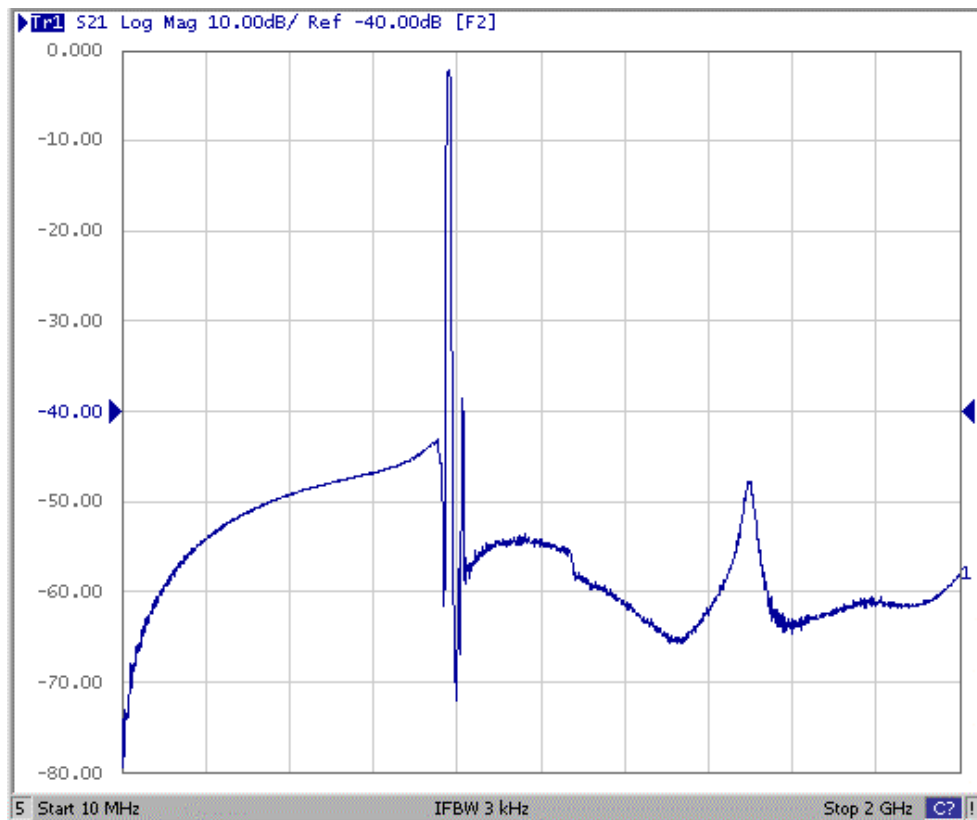
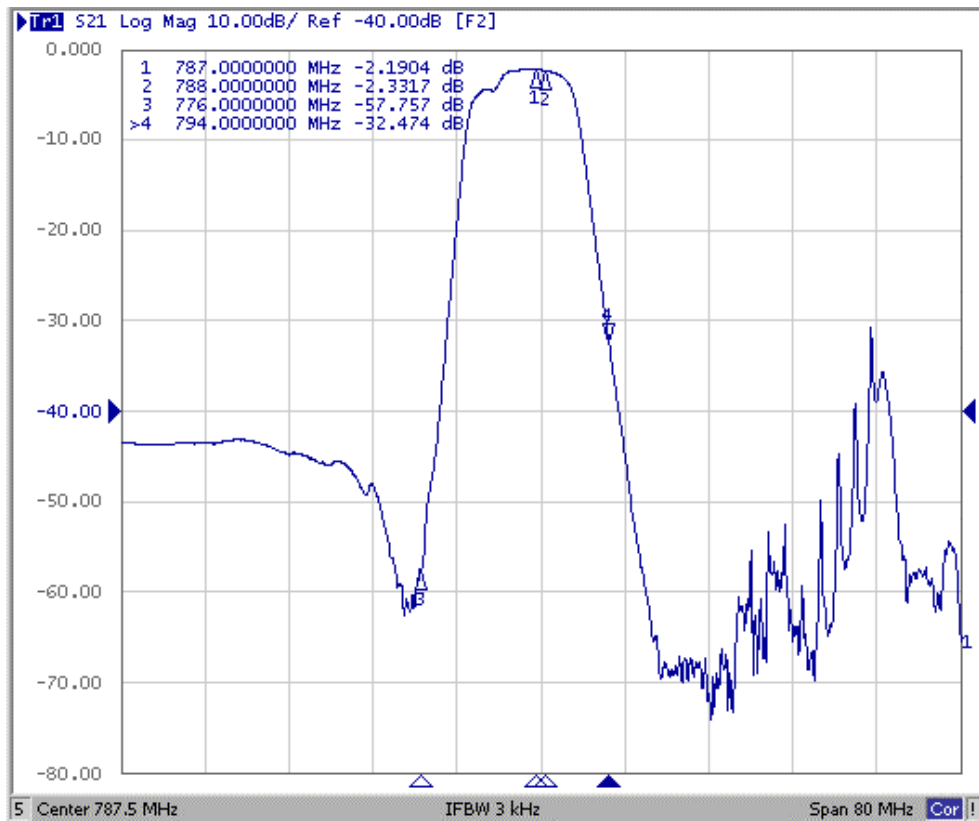
**D. OUTLINE DRAWING:**



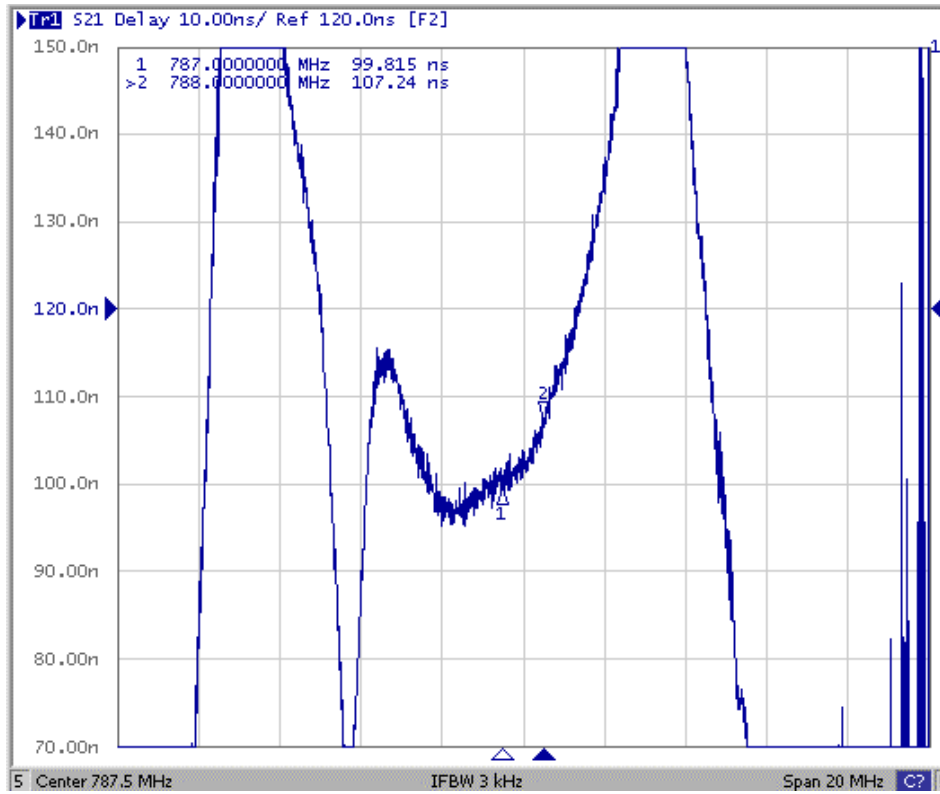
**E. PCB Footprint:**



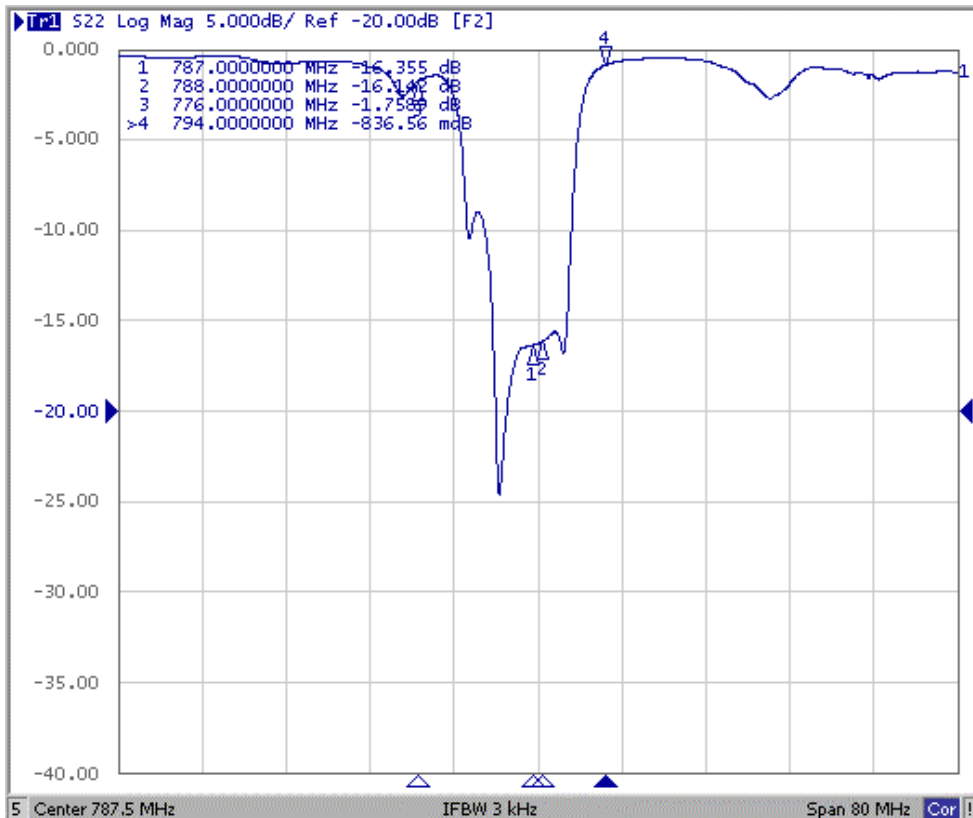
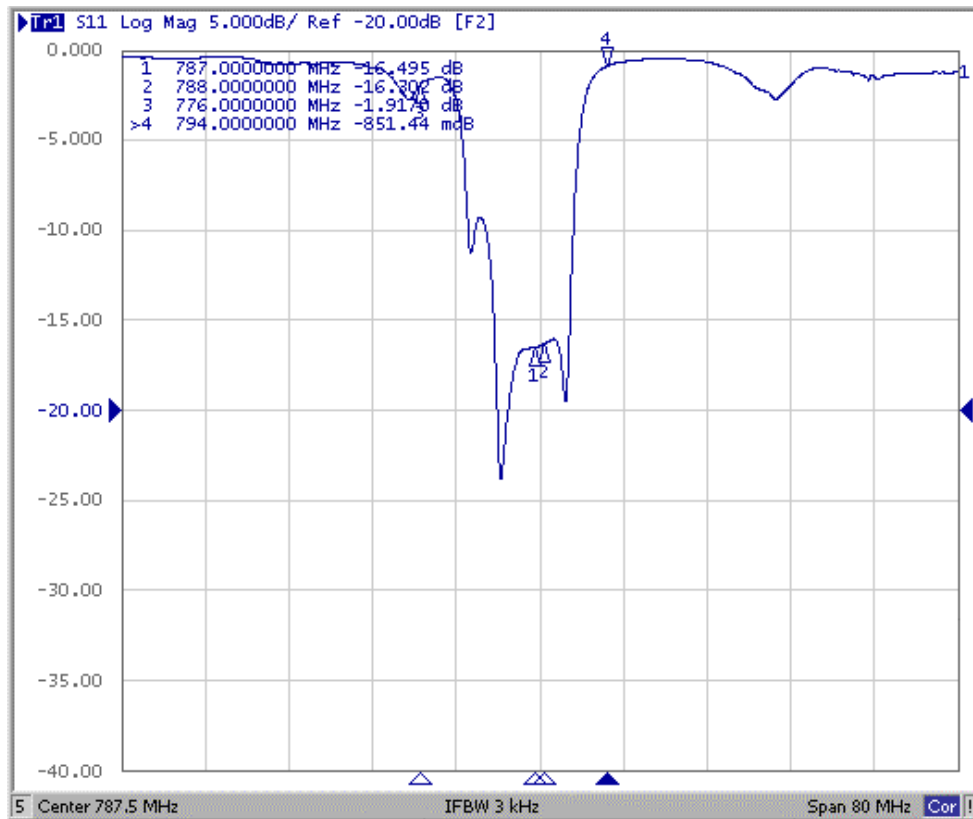
## F. Frequency Characteristics : Transfer function



# Group Delay



## Reflection Functions :





**G.RECOMMENDED REFLOW PROFILE:**

