



# 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:

Product Name: SAW Filter 810MHz SMD 3.0×3.0mm

TST Parts No.:TA0424A

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

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

Checked by: \_\_\_\_\_ Elvis Chiu

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

Date: \_\_\_\_\_ 2005/02/17



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## SAW Filter 810 MHz

MODEL NO.: TA0424A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -40°C to 85°C
4. Storage Temperature: -40°C to +85°C

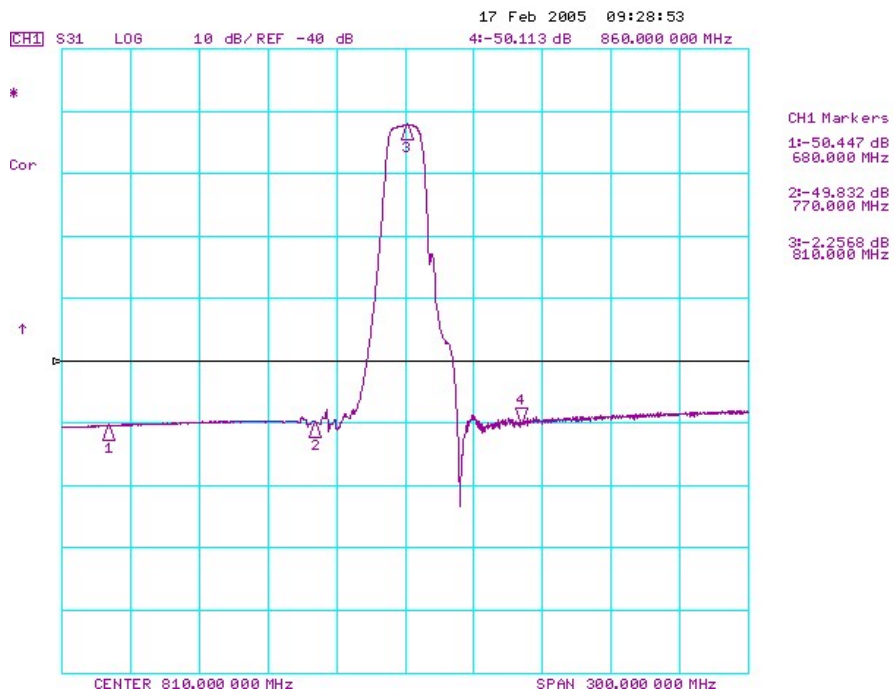
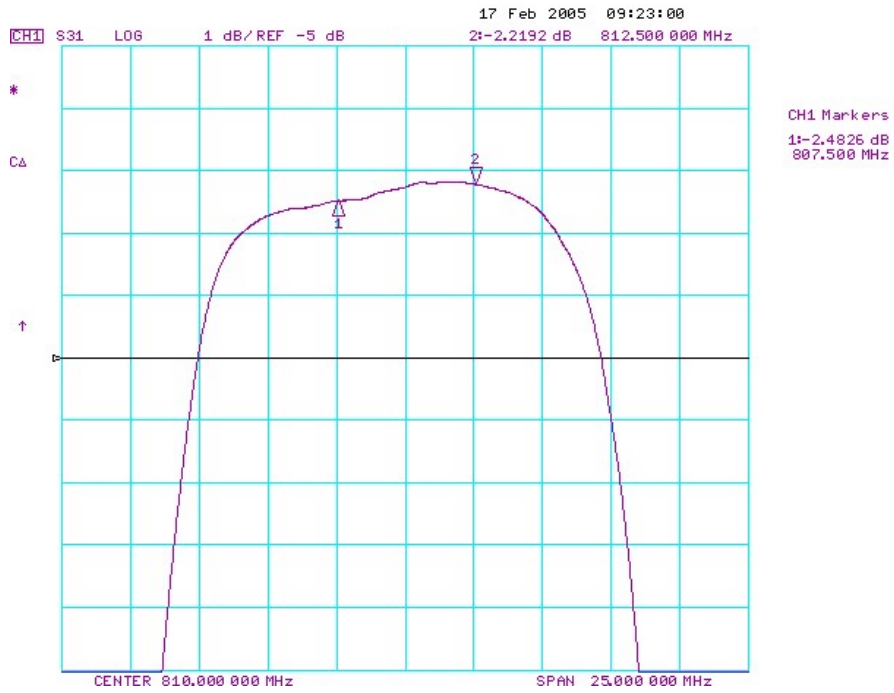
RoHS Compliant  
Lead free  
Lead-free soldering

### B. CHARACTERISTICS:

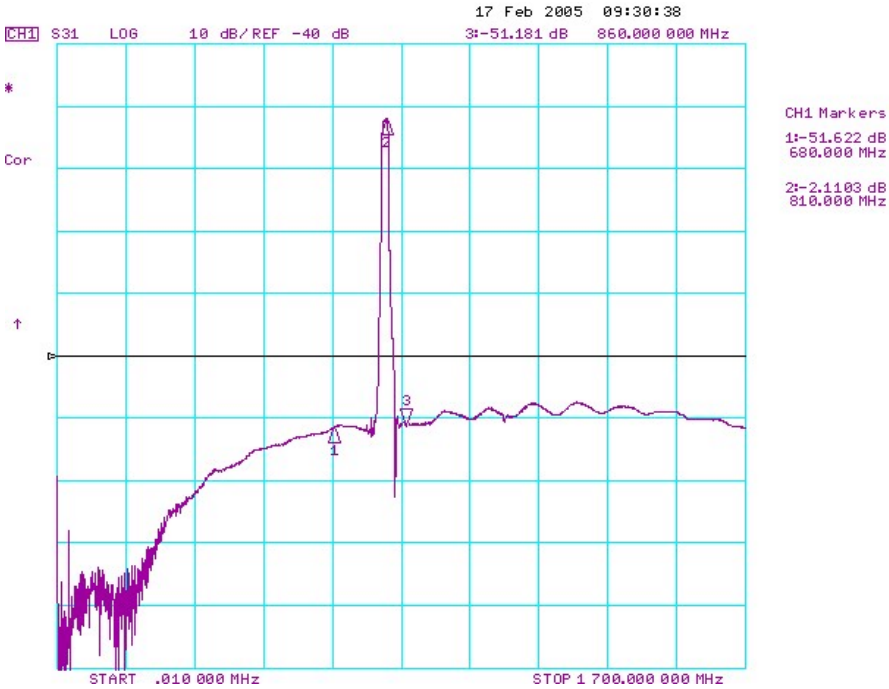
Item				Min.	Typ.	Max.
<b>Center frequency</b>	F <sub>c</sub>	MHz		-	810	-
<b>Insertion loss</b>	807.5 ~ 812.5 MHz	IL	dB	-	2.7	5.0
<b>Amplitude ripple</b>	807.5 ~ 812.5 MHz		dB	-	0.5	1.8
<b>Group delay variation</b>	807.5 ~ 812.5 MHz		ns	-	17	150
<b>1dB Bandwidth</b>	<b>BW<sub>-1dB</sub></b>		MHz	-	12	-
<b>3dB Bandwidth</b>	<b>BW<sub>-3dB</sub></b>		MHz	-	14.8	-
<b>10dB Bandwidth</b>	<b>BW<sub>-10dB</sub></b>		MHz	-	18.1	-
<b>20dB Bandwidth</b>	<b>BW<sub>-20dB</sub></b>		MHz	-	21.6	-
<b>30dB Bandwidth</b>	<b>BW<sub>-30dB</sub></b>		MHz	-	28.2	-
<b>Attenuation (Reference level from 0dB)</b>						
	680 ~ 770	MHz	dB	35	49	-
	860	MHz	dB	40	50	-
<b>Temperature coefficient of frequency</b>			ppm/K	-	-36	-
<b>Source impedance</b>		Z <sub>S</sub>	Ω	-	50	-
<b>Load impedance</b>		Z <sub>L</sub>	Ω	-	50	-

Note1. No matching network required for operation at 50Ω

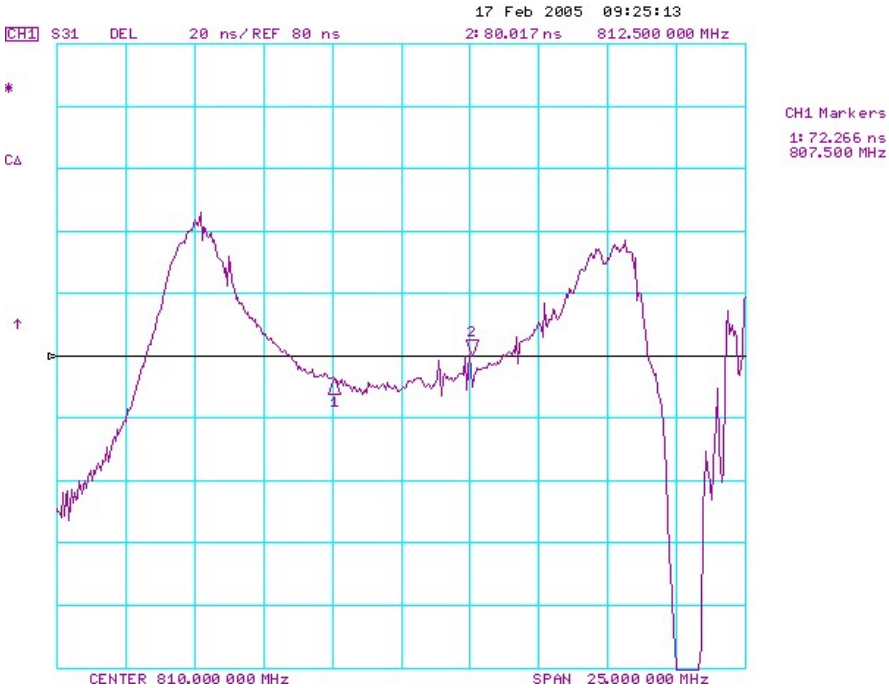
### C. Transfer Function :



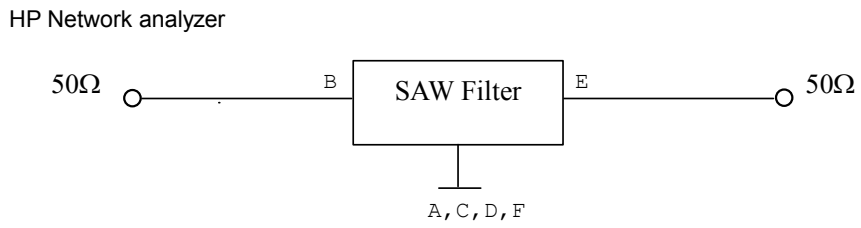
Wideband:



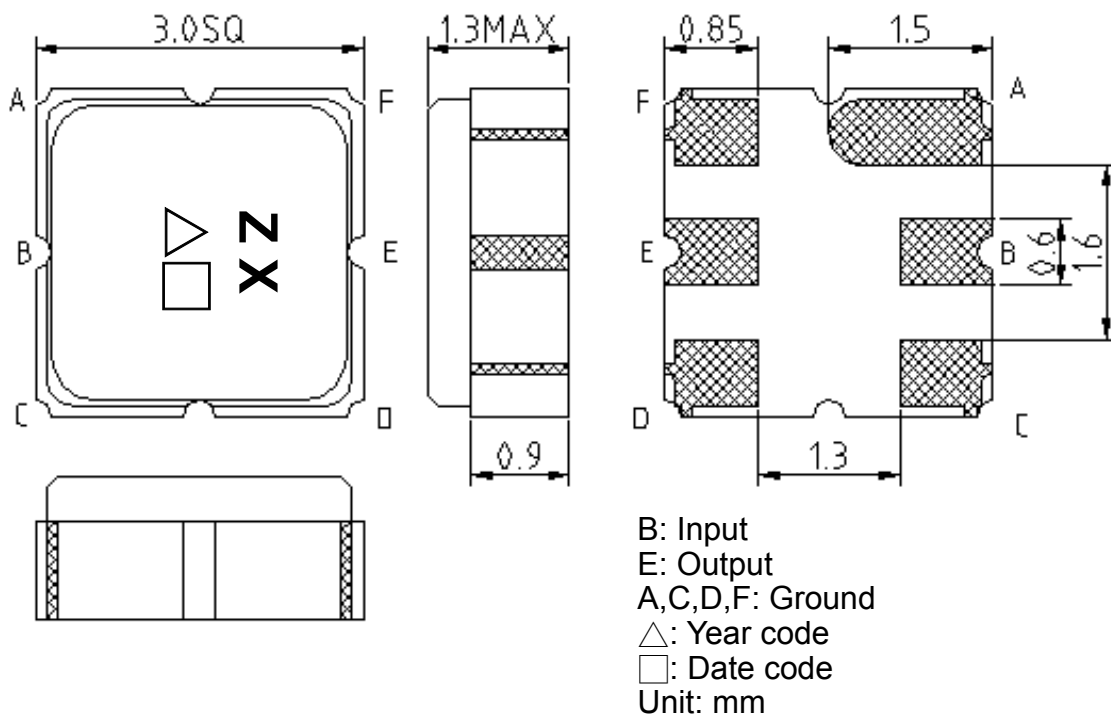
Group Delay Variation:



### D. MEASUREMENT CIRCUIT:



### E. OUTLINE DRAWING:



### F. PCB FOOTPRINT:

