



# 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:

Product Name: SAW Filter 1030MHz SMD 3.8x3.8 mm

TST Parts No.:TA0177A

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

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

Checked by: \_\_\_\_\_ Anne Chen

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

Date: \_\_\_\_\_ 2007/09/19



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## SAW Filter 1030 MHz

MODEL NO.: TA0177A

REV. NO.:5

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 0 V
3. Operating Temperature: -45°C to +85°C
4. Storage Temperature: -40°C to +85°C

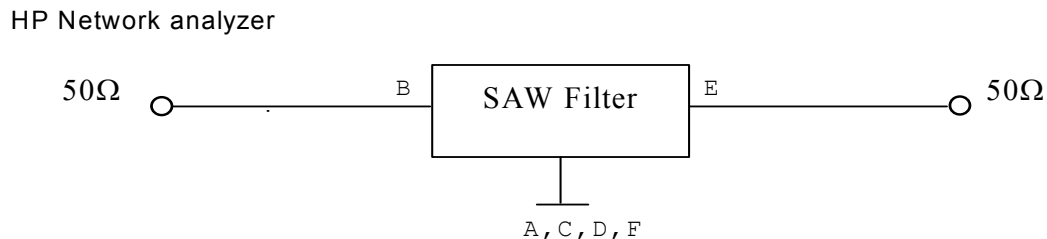
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

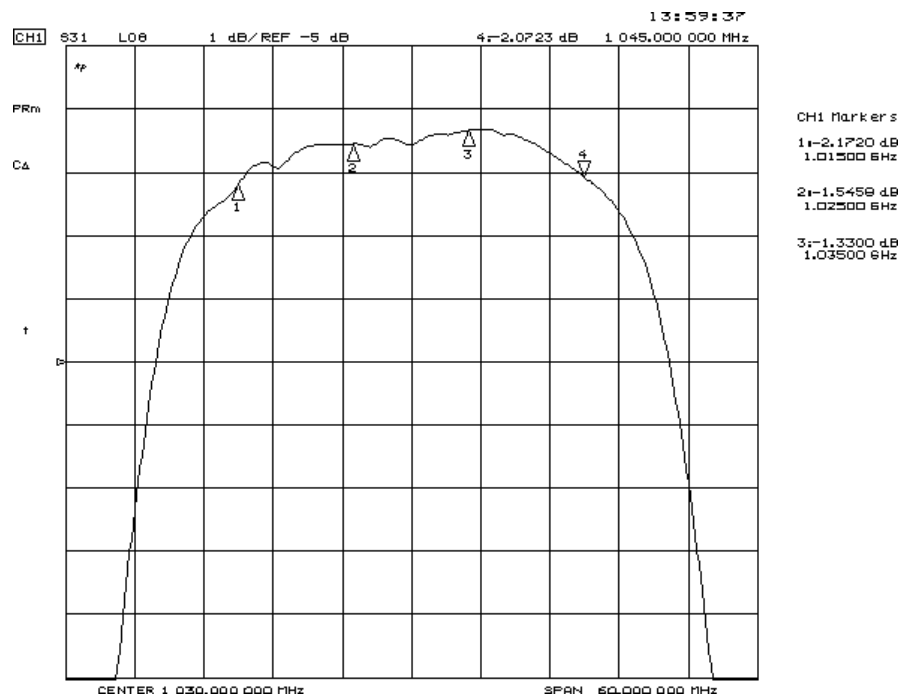
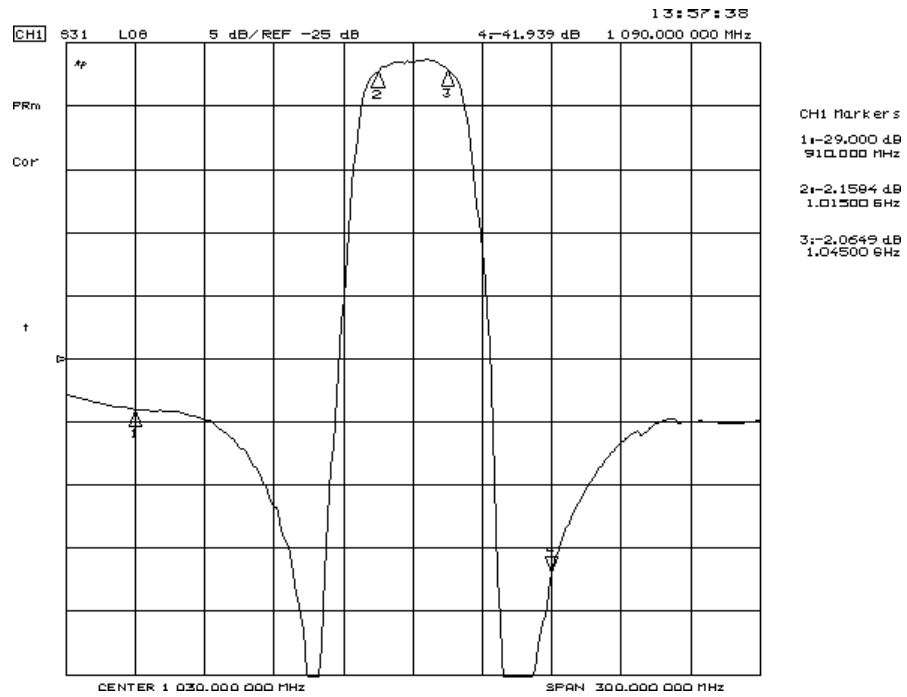
Characteristics	(at 25°C)	Min.	Typ.	Max.
<b>Center frequency</b>	<b>F<sub>c</sub></b> (dB)	-	1030	-
<b>Insertion loss</b> within 1015 ~1045 MHz	<b>IL</b> (dB)	-	2.3	3.0
<b>Amplitude ripple</b> (p-p) within 1025 ~ 1035 MHz	(dB)	-	0.25	1.0
<b>Attenuation</b> (Reference level from 0 dB)				
DC ~ 910 MHz	(dB)	25.0	29.5	-
1090 ~ 1300 MHz	(dB)	25.0	32.5	-
<b>VSWR</b> within 1015 ~1045 MHz		-	1.8	2.1
<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 50 Ω

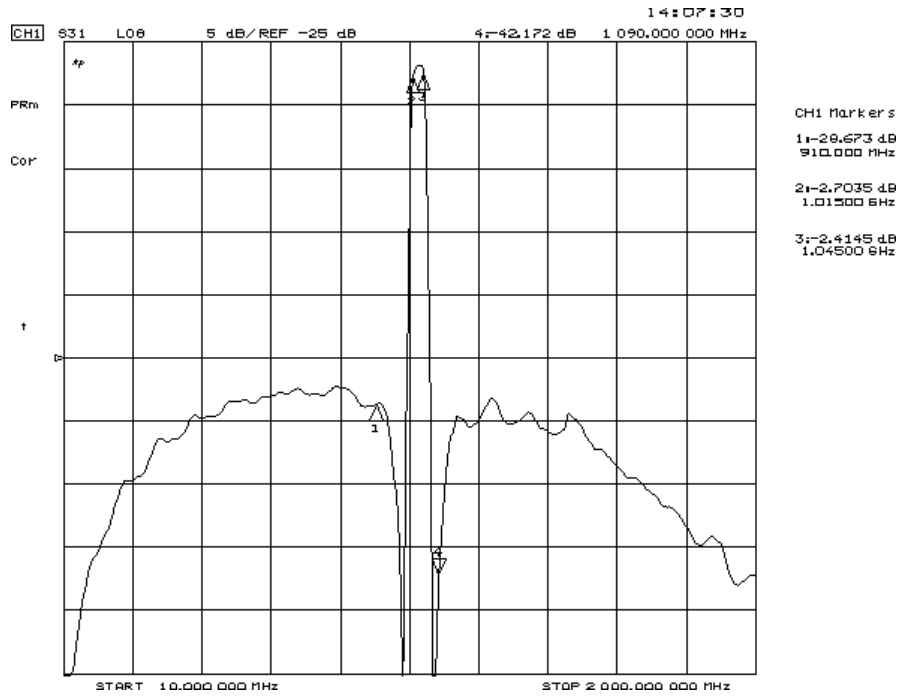
### C. MEASUREMENT CIRCUIT:



## D. Frequency Characteristics :

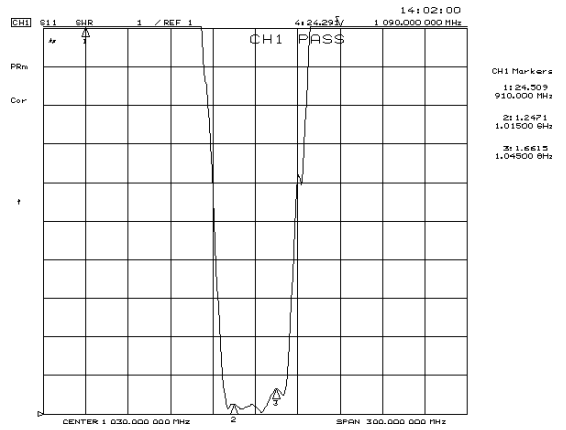
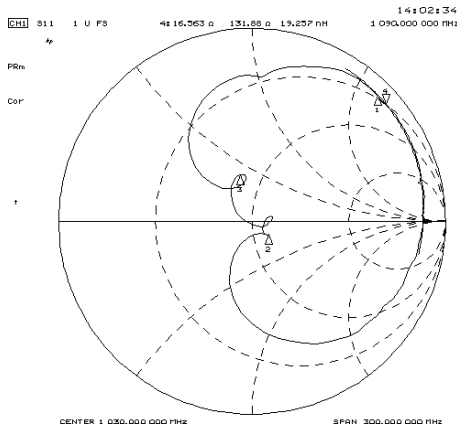


(wideband)

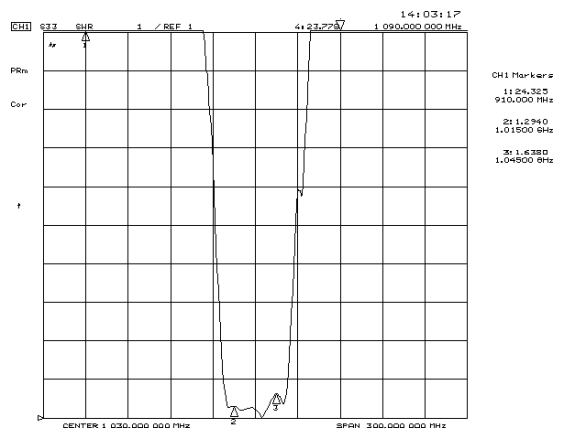
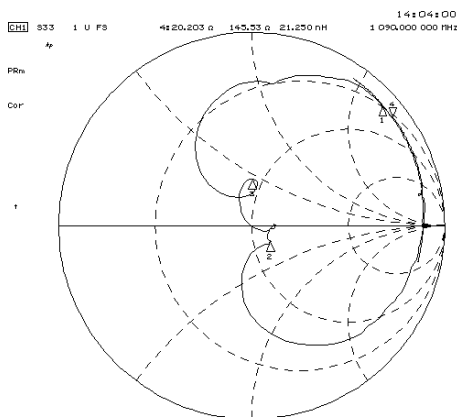


**E.Reflections Functions :**

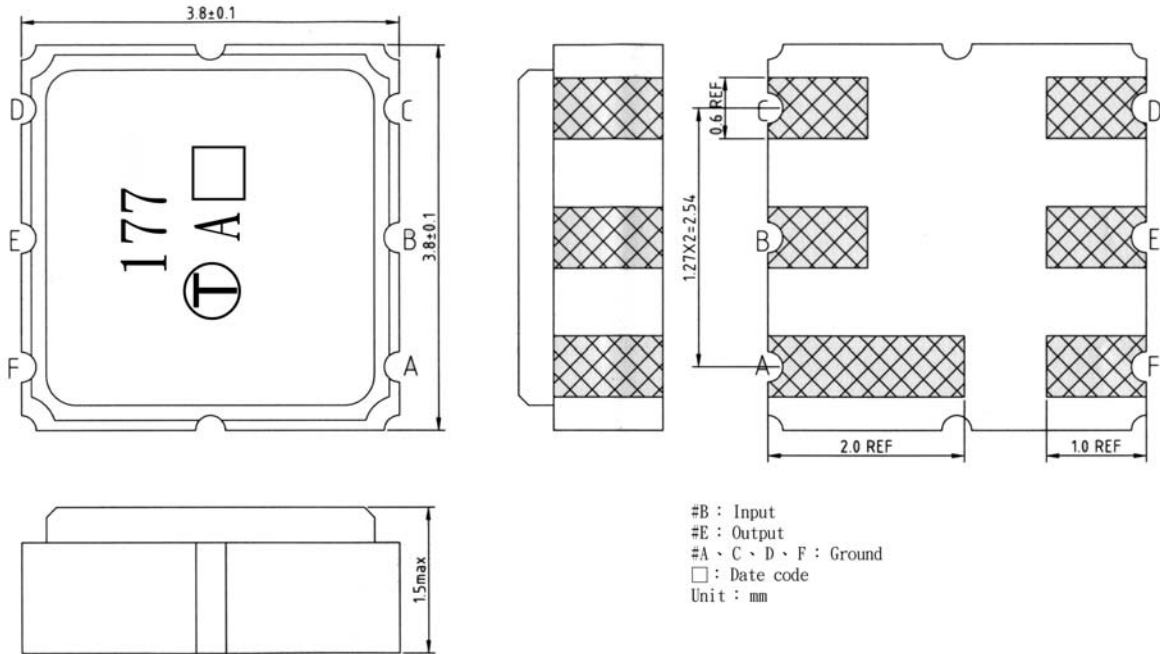
S11:



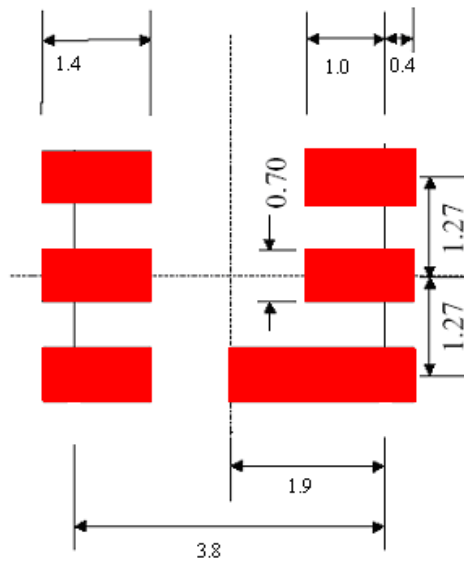
S22:



**F.OUTLINE DRAWING:**

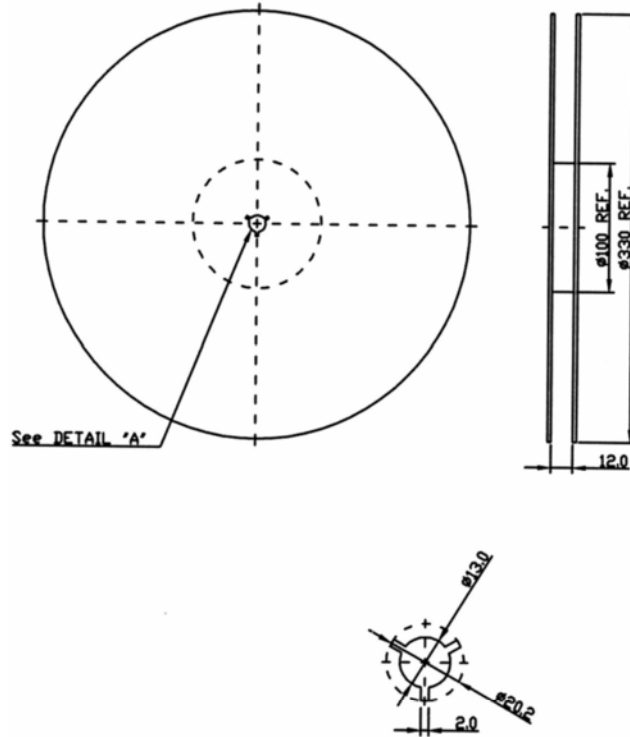


**G. PCB Footprint:**

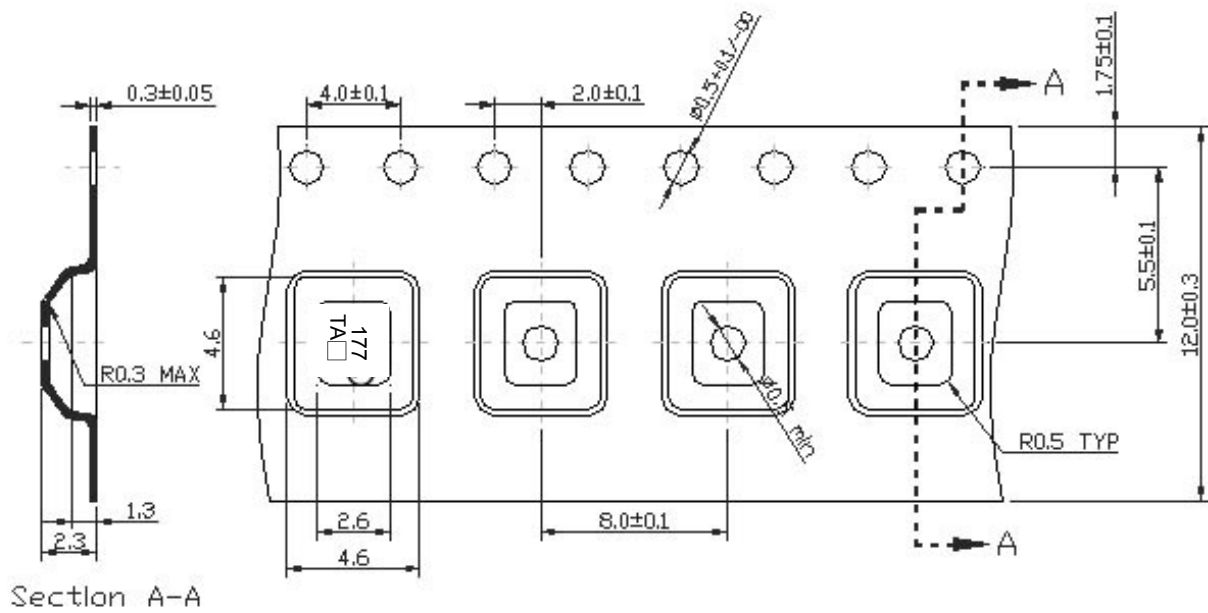


## H. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



**I. RECOMMENDED REFLOW PROFILE :**

