



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 2140 MHz SMD 3.0SQ for W-CDMA

TST Parts No.: TA0174A

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

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

Checked by:           Anne Chen           

Approval by:           Francis Chen           

Date:           Sep. 5. 2008



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## SAW Filter 2140 MHz for Mobile Communication

MODEL NO.: TA0174A

REV. NO.:3

### A. MAXIMUM RATING:

1. Input Power Level: 13 dB<sub>m</sub>
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

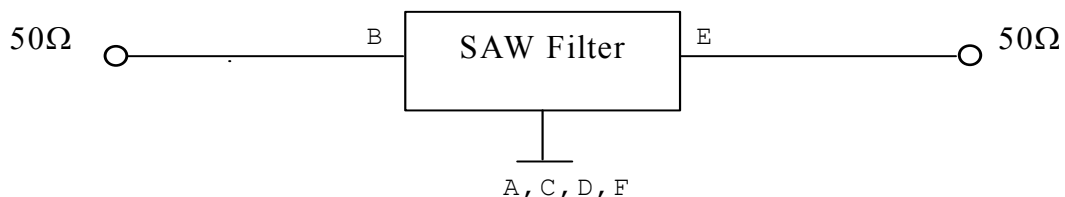
### B. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.
<b>Center frequency</b> <span style="float: right;">Fc (dB)</span>	-	2140	-
<b>Insertion loss</b> within 2110 ~2170 MHz <span style="float: right;">IL (dB)</span>	-	2.1	3.5
<b>Amplitude ripple</b> (p-p) within 2110 ~ 2170 MHz (dB)	-	0.6	2.0
<b>Attenuation</b> (Reference level from 0 dB)			
D.C. ~ 500 MHz <span style="float: right;">(dB)</span>	21.0	33.0	-
500 ~ 1900 MHz <span style="float: right;">(dB)</span>	20.0	28.0	-
1900 ~ 2050 MHz <span style="float: right;">(dB)</span>	25.0	30.0	-
2215 ~ 2300 MHz <span style="float: right;">(dB)</span>	20.0	32.0	-
2300 ~ 4500 MHz <span style="float: right;">(dB)</span>	25.0	32.0	-
<b>VSWR</b> within 2110 ~2170 MHz	-	1.9	2.2
<b>Source impedance</b> <span style="float: right;">Zs (Ω)</span>	-	50	-
<b>Load impedance</b> <span style="float: right;">ZL (Ω)</span>	-	50	-

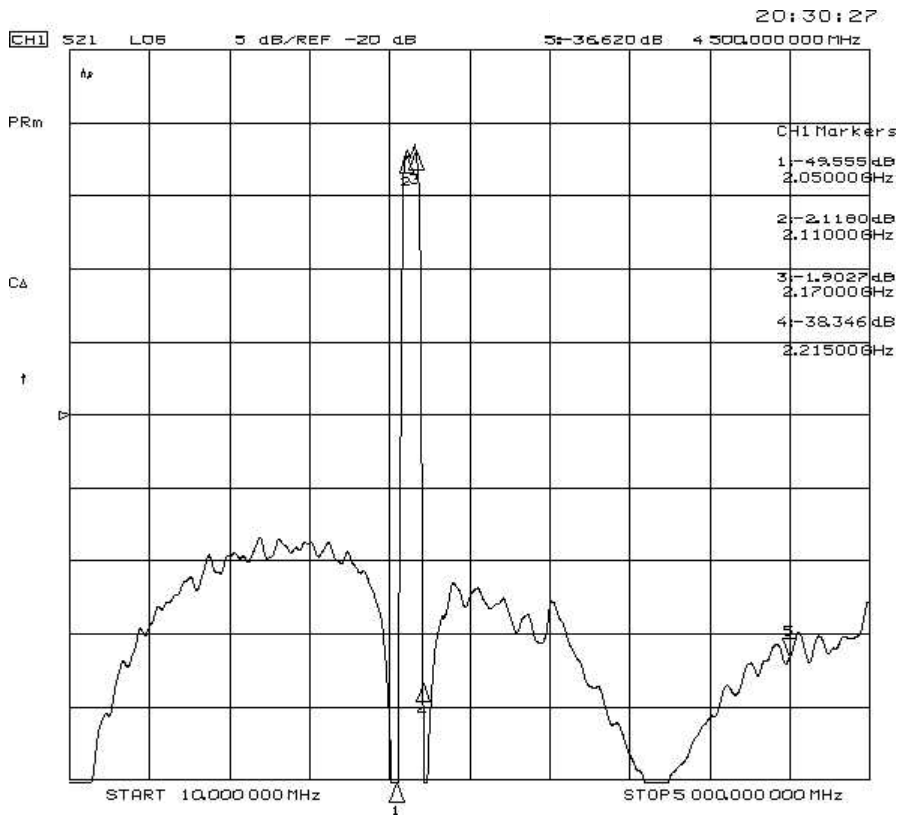
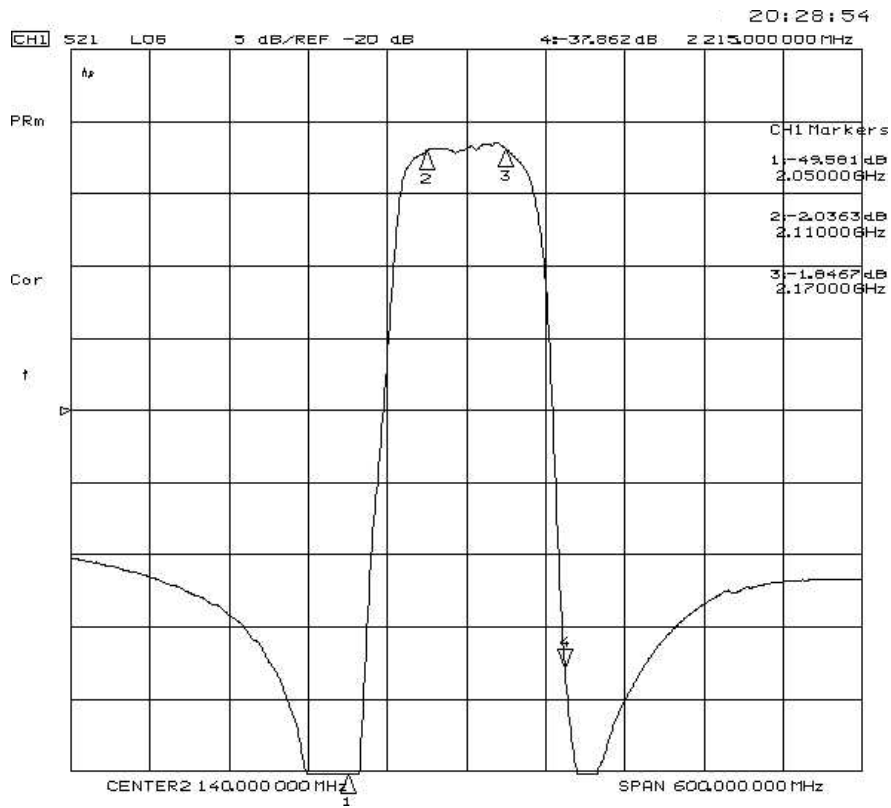
Note1. No matching network required for operation at 50 Ω

### MEASUREMENT CIRCUIT:

HP Network analyzer

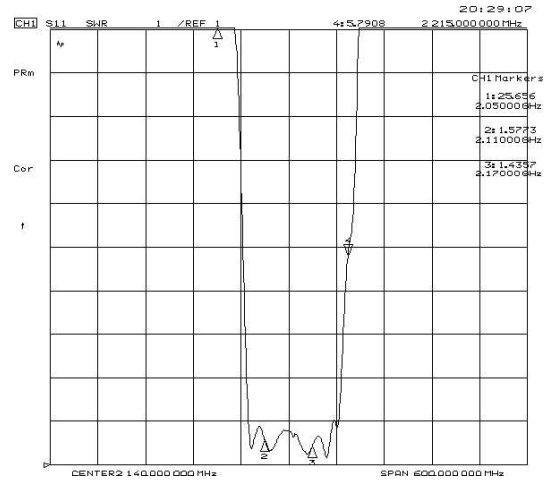
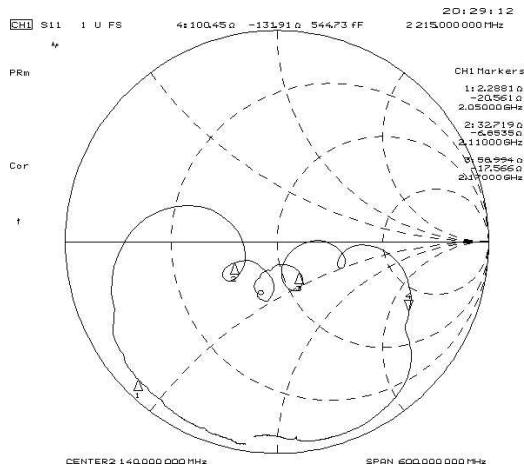


### C. Frequency Characteristics : Transfer function

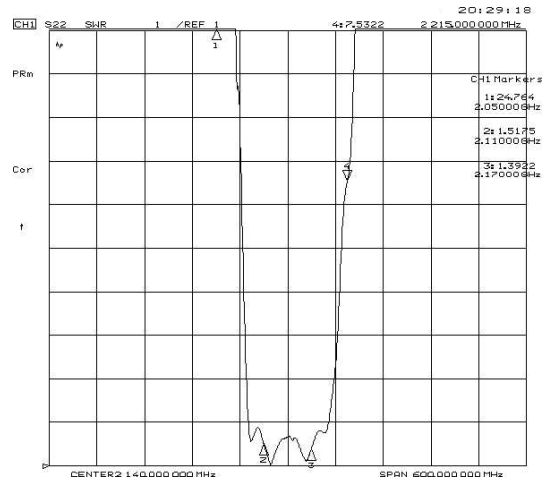
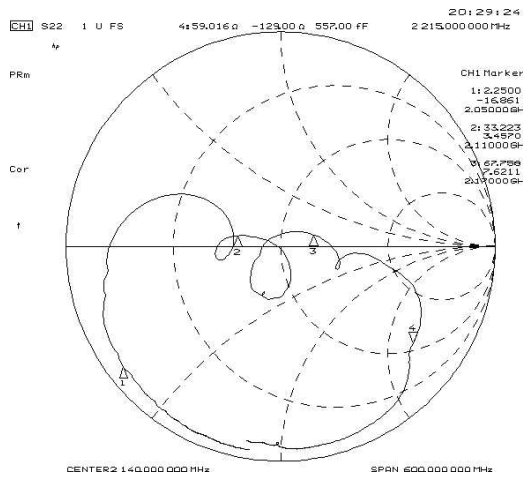


## D.Reflections Functions :

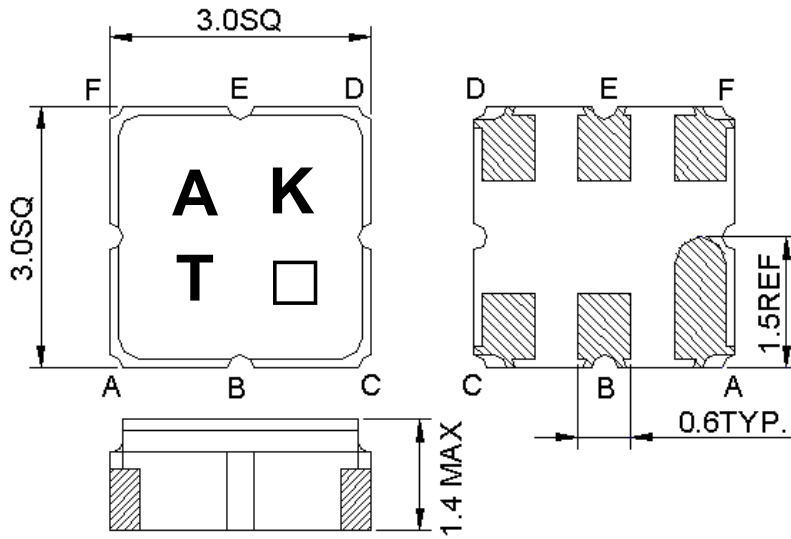
### S11 VSWR



### S22 VSWR



**E.OUTLINE DRAWING:** 雷射



- Pin B : Input
- Pin E : Output
- Pin A,C,D,F : Ground
- : week code (Follow the table from planner each year)
- Unit : mm

**F. PCB Footprint:**

