



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 280 MHz for WLAN

TST Parts No.:TB0137A

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

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

Checked by: \_\_\_\_\_ Andy Lee

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

Date: \_\_\_\_\_ 2003/3/18



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## SAW Filter 280 MHz for WLAN

MODEL NO.: TB0137A

REV. NO.:2

### A. MAXIMUM RATING:

RoHS Compliant  
Lead free  
Lead-free soldering

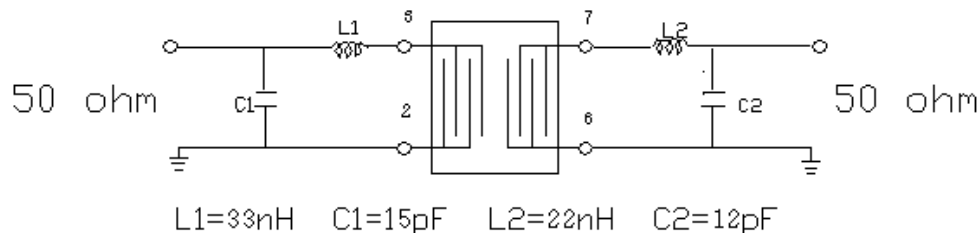
1. Input Power Level: 10 dBm
2. Operating Temperature: -10°C to 85°C
3. Storage Temperature: -40°C to 85°C

### B. ELECTRICAL CHARACTERISTICS :

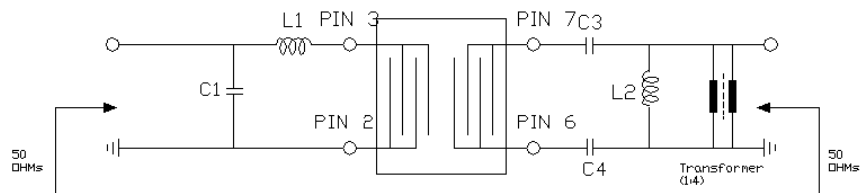
Item	Unit	Min.	Type.	Max.	Note
Center frequency, <b>F<sub>c</sub></b>	MHz	-	280	-	
Insertion Loss, <b>IL</b>	dB	-	8.3	10	
Passband width, <b>BW3</b>	MHz	18.5	19.8	23	
Amplitude Ripple in $F_c \pm 9\text{MHz}$	dB	-	2	3	
Group delay ripple in $F_c \pm 9\text{MHz}$	nS	-	60	100	
Attenuation:(Reference level from Min IL)					
$F_c -60$ to $-40\text{MHz}$	dB	40	46	-	
$F_c -40$ to $-22\text{MHz}$	dB	37	39	-	
$F_c -22$ to $-16\text{MHz}$	dB	30	39	-	
$F_c +16$ to $+22\text{MHz}$	dB	25	33	-	
$F_c +22$ to $+40\text{MHz}$	dB	34	36	-	
$F_c +40$ to $+60\text{MHz}$	dB	40	45	-	

### C. MATCHING CONFIGURATION:

1.For Single End In, Single End Out



## 2.For Single End In, Balance Out



$$C1=15\text{pF} \quad C2=75\text{pF}$$

$$C3=68\text{pF}$$

$$L1=33\text{nH} \quad L2=27\text{nH}$$

### D. FREQUENCY CHARACTERISTICS(For Single Un ,Balance out Type):

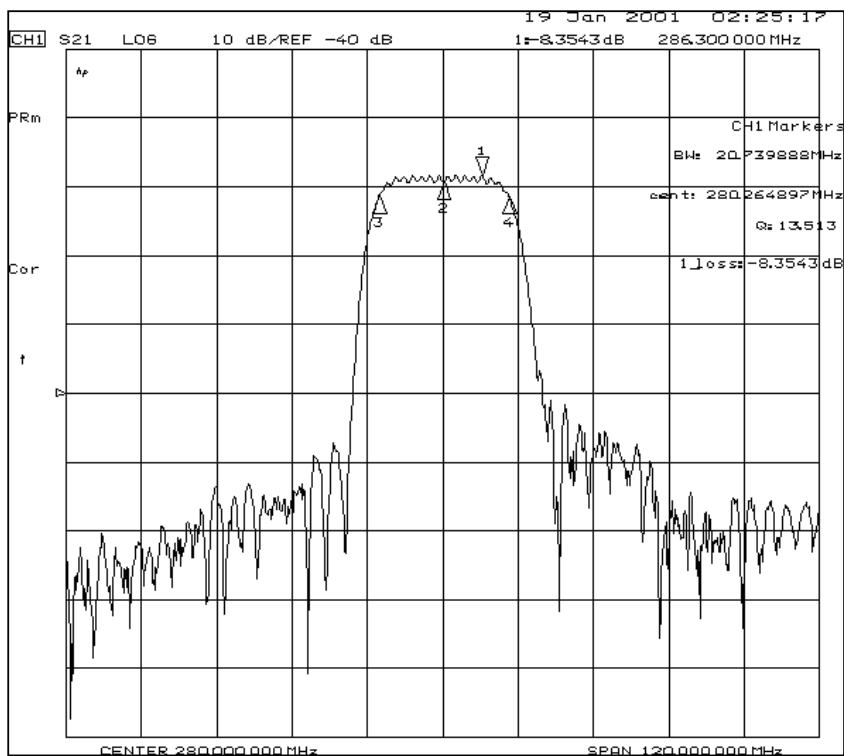


Fig-1 S21 Response

Note2: Insertion loss of balun transformers is around -0.7dB.

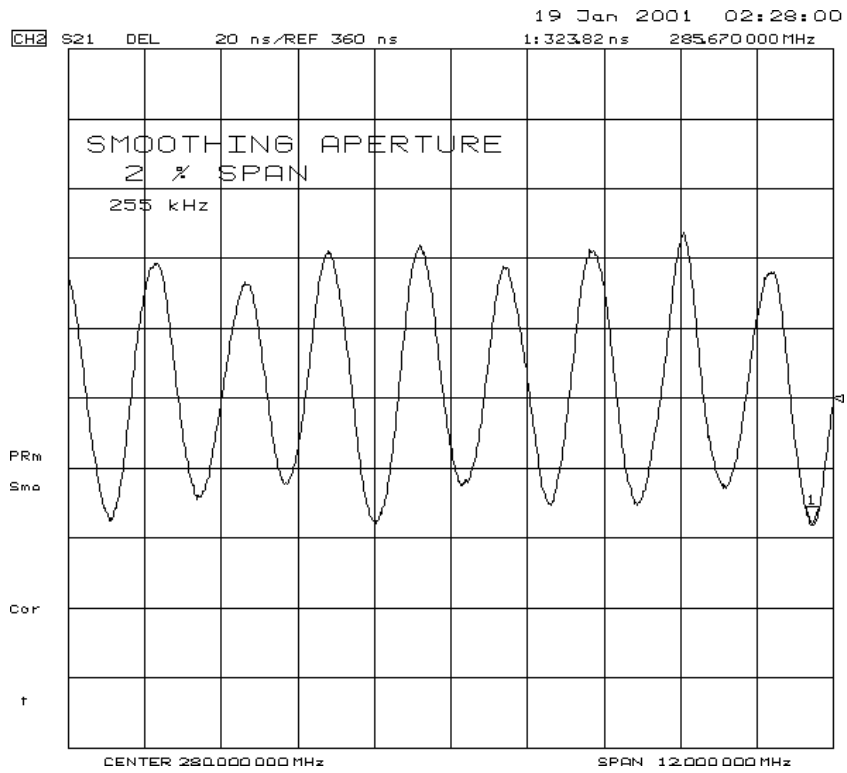
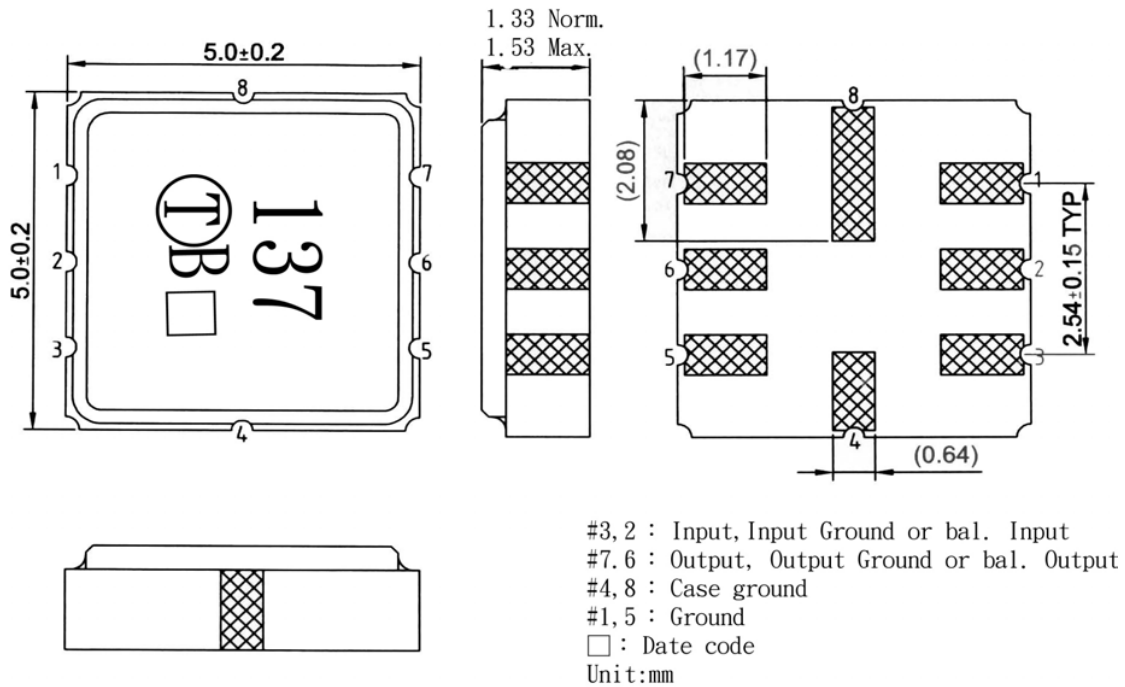


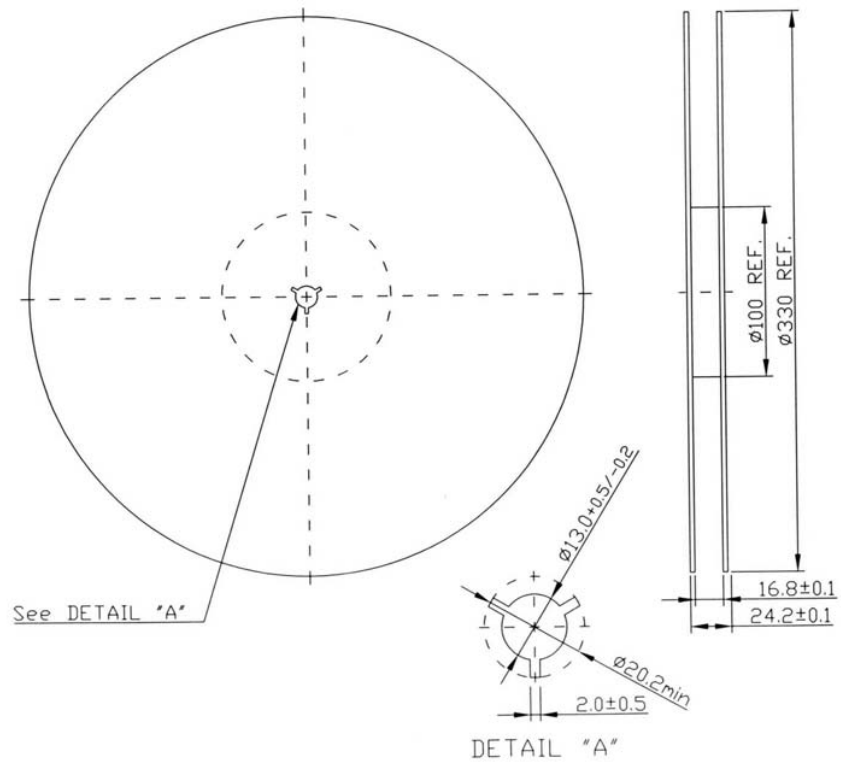
Fig-2 Group Delay

E. OUTLINE DRAWING:

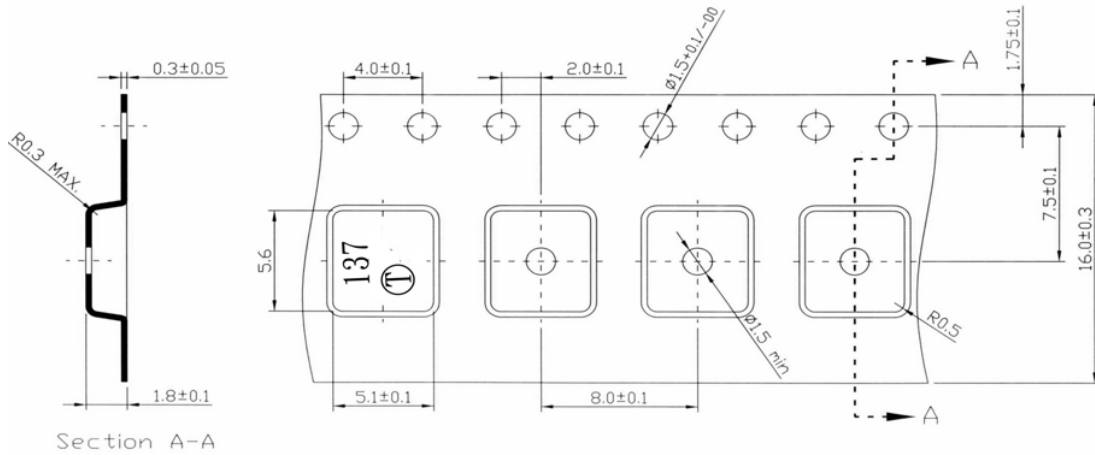


F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



$A_0 = 5.30 \pm 1 \text{ mm}$

$B_0 = 5.30 + 0.2 / - 0.0 \text{ mm}$

$K_0 = 2.0 \pm 0.1 \text{ mm}$