



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

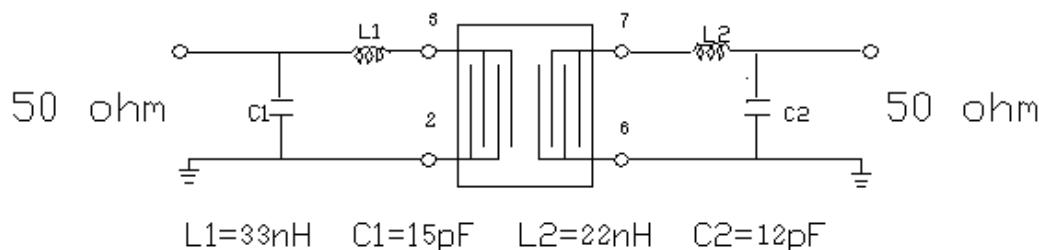
1. Input Power Level: 10 dBm
2. Operating Temperature: -10°C to 85°C
3. Storage Temperature: -40°C to 85°C

B. ELECTRICAL CHARACTERISTICS :

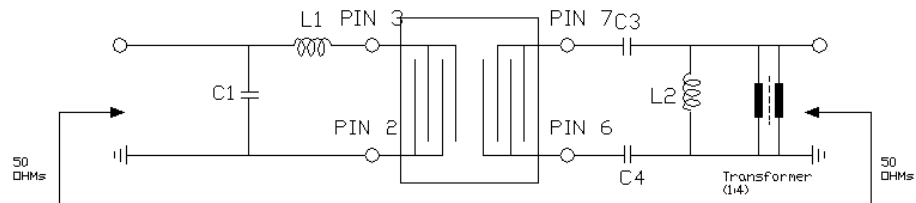
Item	Unit	Min.	Type.	Max.	Note
Center frequency, F_c	MHz	-	280	-	
Insertion Loss, IL	dB	-	8.3	10	
Passband width, BW₃	MHz	18.5	19.8	23	
Amplitude Ripple in F _c ±9MHz	dB	-	2	3	
Group delay ripple in F _c ±9MHz	nS	-	60	100	
Attenuation:(Reference level from Min IL)					
F _c -60 to -40MHz	dB	40	46	-	
F _c -40 to -22MHz	dB	37	39	-	
F _c -22 to -16MHz	dB	30	39	-	
F _c +16 to +22MHz	dB	25	33	-	
F _c +22 to +40MHz	dB	34	36	-	
F _c +40 to +60MHz	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):

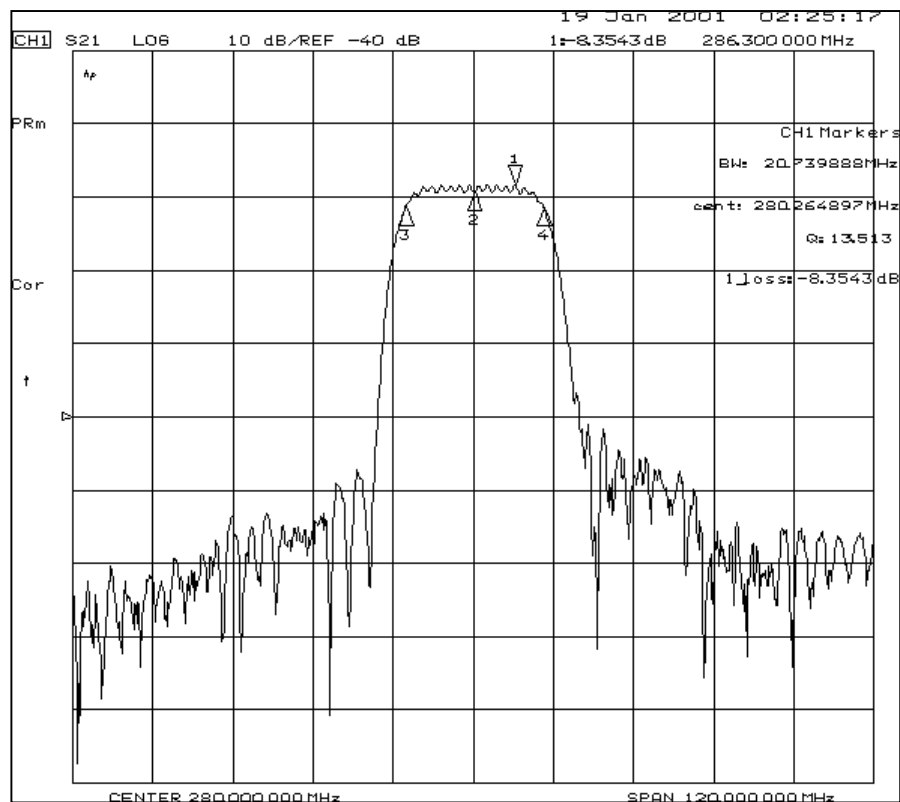


Fig-1 S21 Response

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

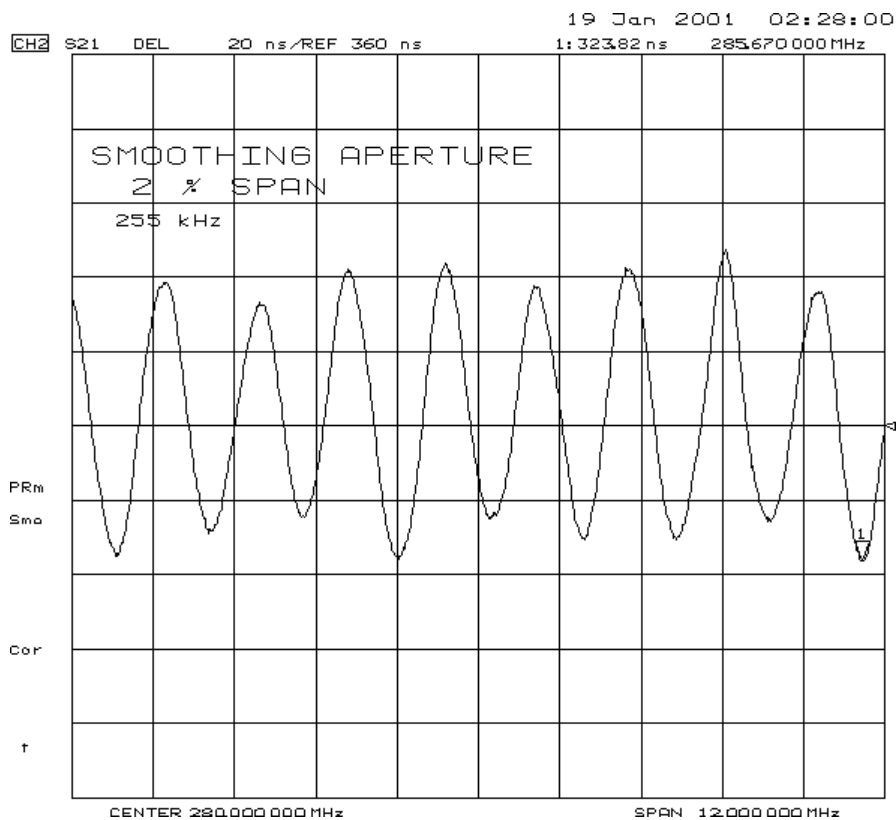
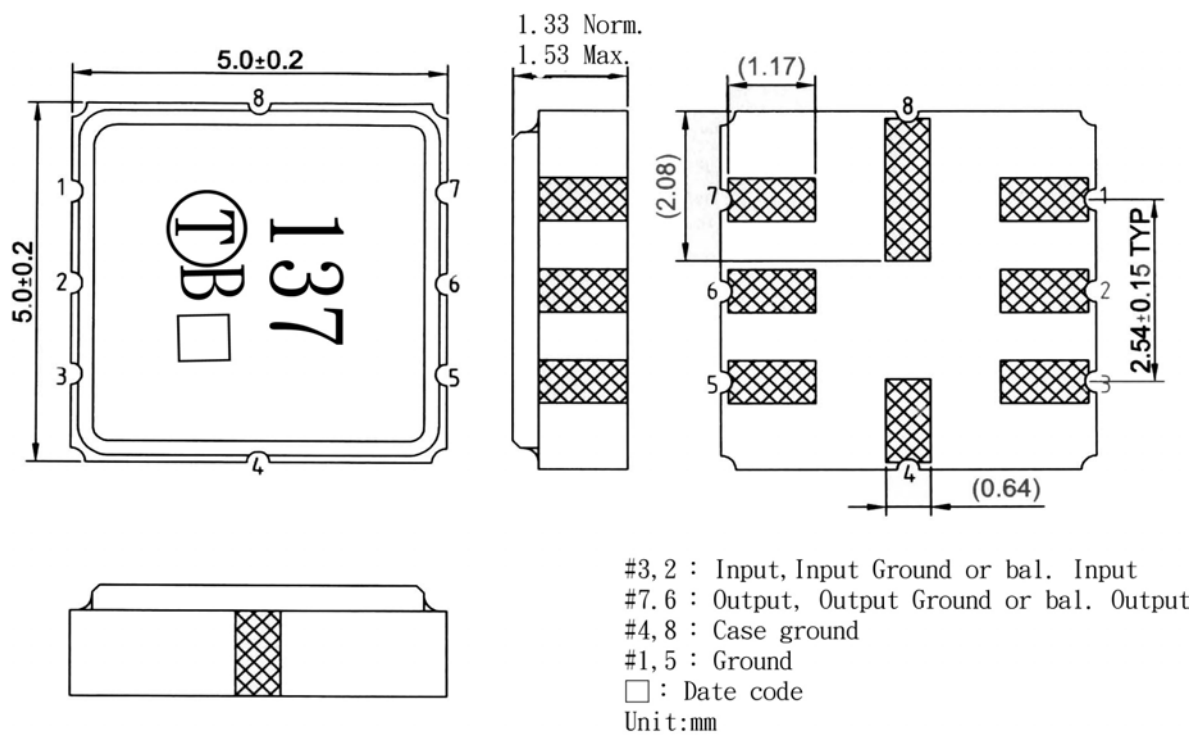


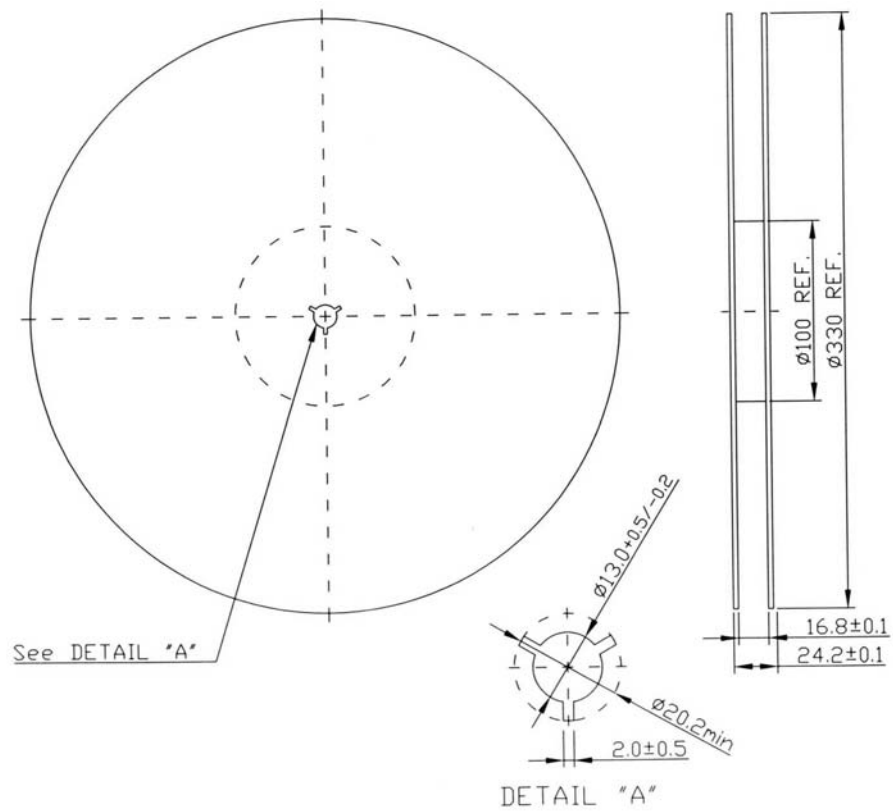
Fig-2 Group Delay

E. OUTLINE DRAWING:

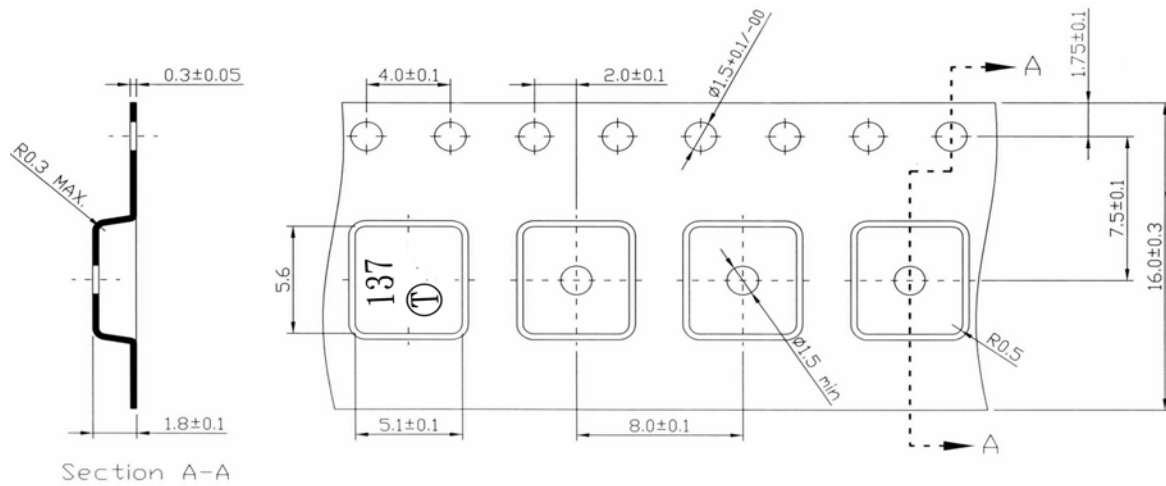


F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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

$B_o = 5.30 \pm 0.2 / -0.0 \text{ mm}$

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