



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 374MHz SMD 5.0x7.0mm

TST Parts No.: TB374EA

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ C.P. Yang

Approval by: _____ Vincent Lee

Date: _____ May,02, 2001



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SAW Filter 374MHz WLAN

MODEL NO.: TB374EA

REV. NO.:5

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

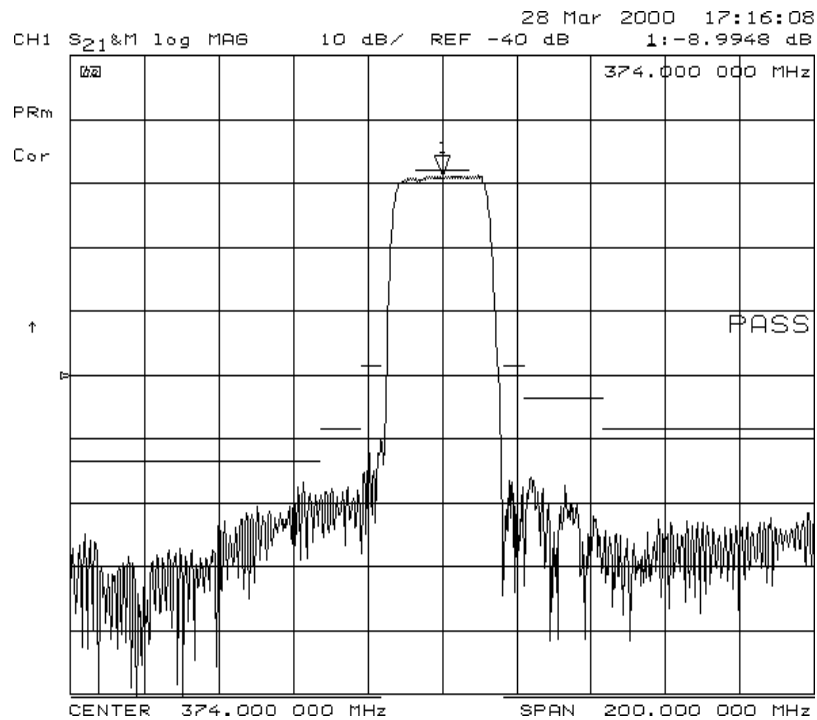
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	374	-	1
Insertion Loss, IL	dB	-	8.9	10	1
Passband width, BW3	MHz	17	23	-	1
Amplitude Ripple in $Fc \pm 7\text{MHz}$, AR	dB	-	0.8	1	1
Group delay ripple in $Fc \pm 7\text{MHz}$, GDT	nS	-	67	100	1
Triple transit suppression	dB	30	38	-	1
Attenuation:(Reference level from Min IL)					
Fc -100 to -33MHz	dB	45	49	-	
Fc -33to -22MHz	dB	40	51	-	
Fc -22 to -16.5MHz	dB	30	45	-	
Fc +16.5 to +22MHz	dB	30	39	-	
Fc +22 to +43 MHz	dB	35	39		
Fc +43 to +100MHz	dB	40	45	-	

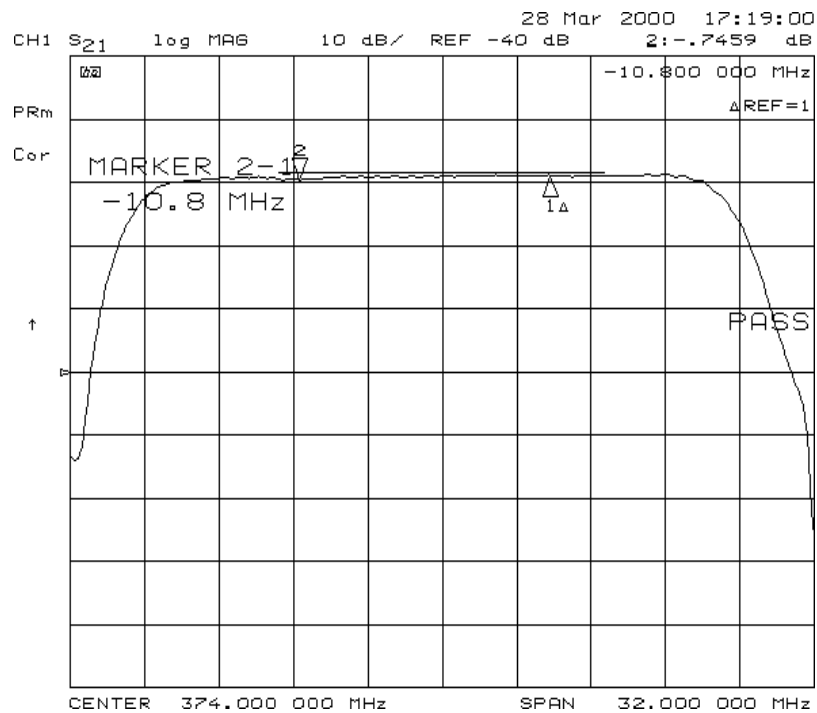
Note1. The standard definitions is in JIS C 6703

C. FREQUENCY CHARACTERISTICS:

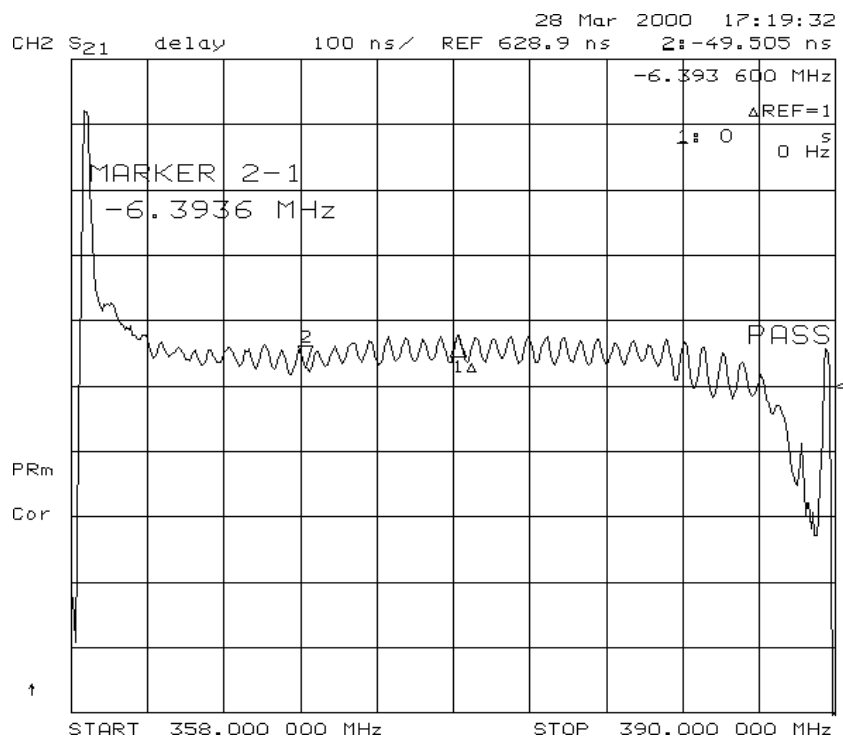
(1) Wide-band of S21:



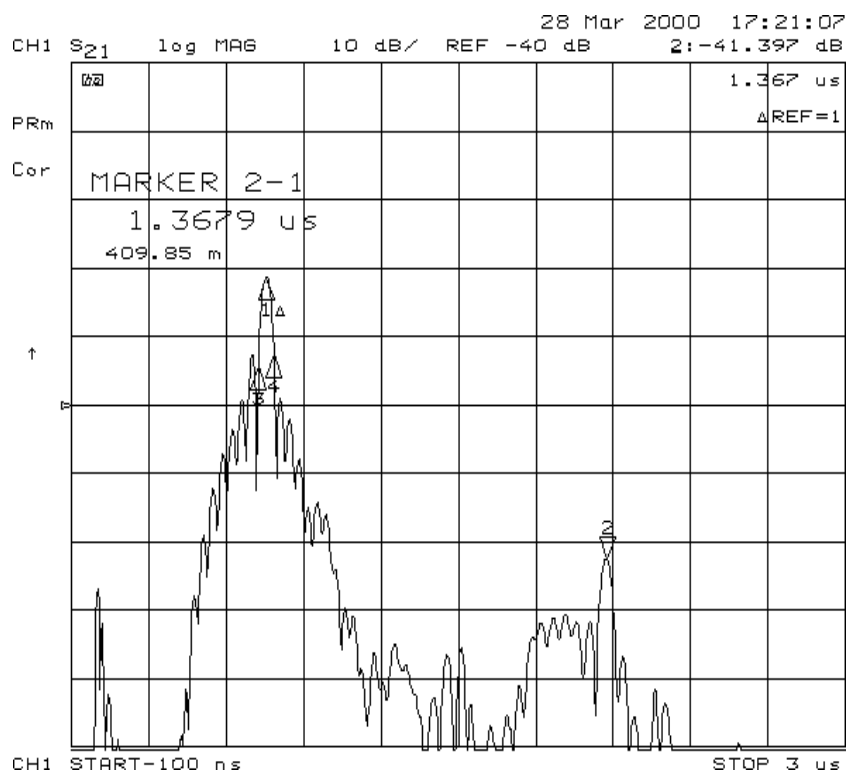
(2) Amplitude ripple:



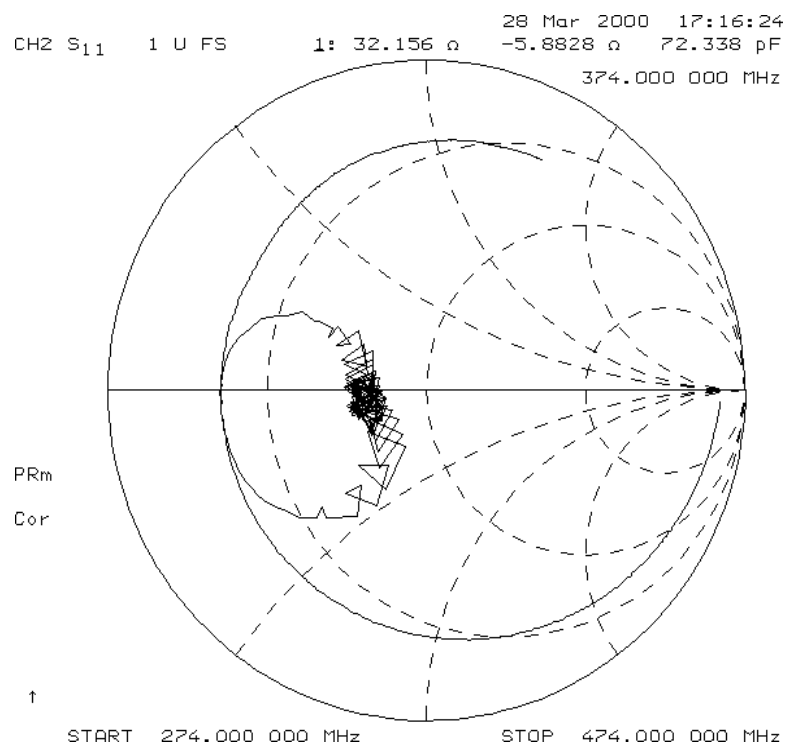
(3) Group delay:



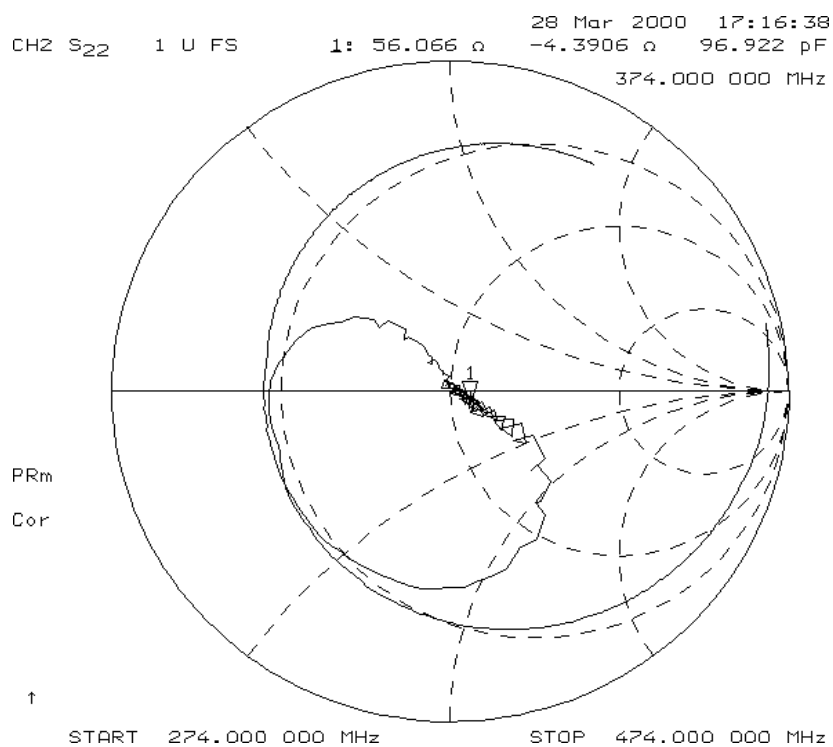
(4) Triple transit suppression:



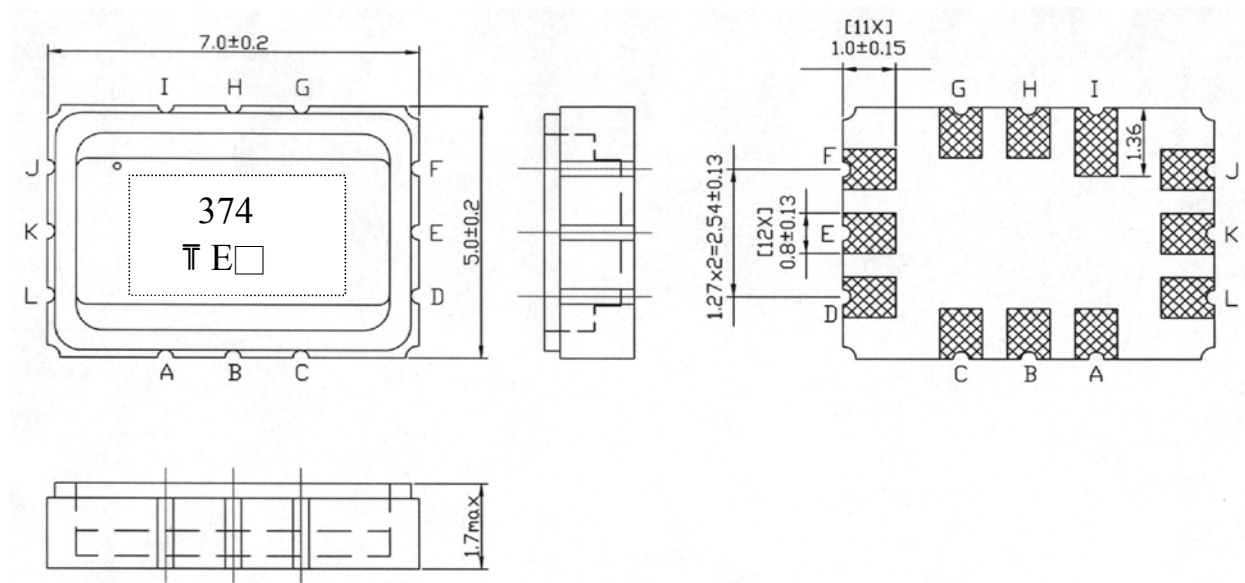
(5) Smith chart of S11:



(6) Smith chart of S22:



D. OUTLINE DRAWING:

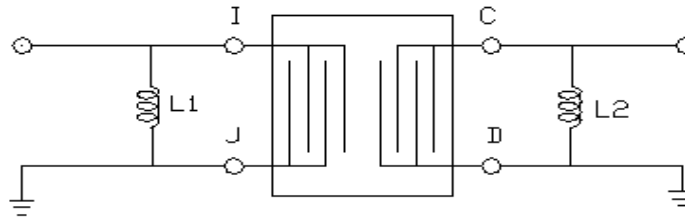


Pin configuration:

I	input
J	input or input ground
C	output
D	output or output ground
A,G,E,F,K,L	case ground
B,H	to be ground

E. measurement circuit:

50Ω unbalanced:

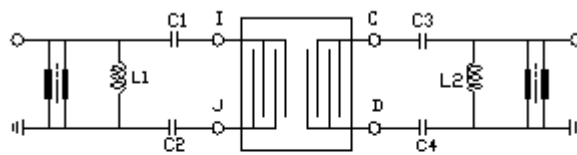


$$L1=18nH$$

$$L2=15nH$$

200Ω balanced:

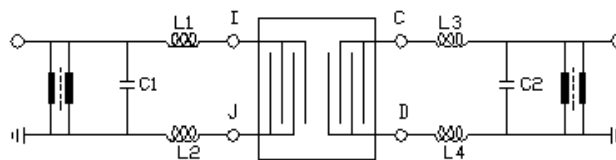
(1)



$$C1=C2=20PF \quad C3=C4=20PF$$

$$L1=22NH \quad L2=22NH$$

(2)



$$L1=L2=22nH \quad L3=L4=22nH$$

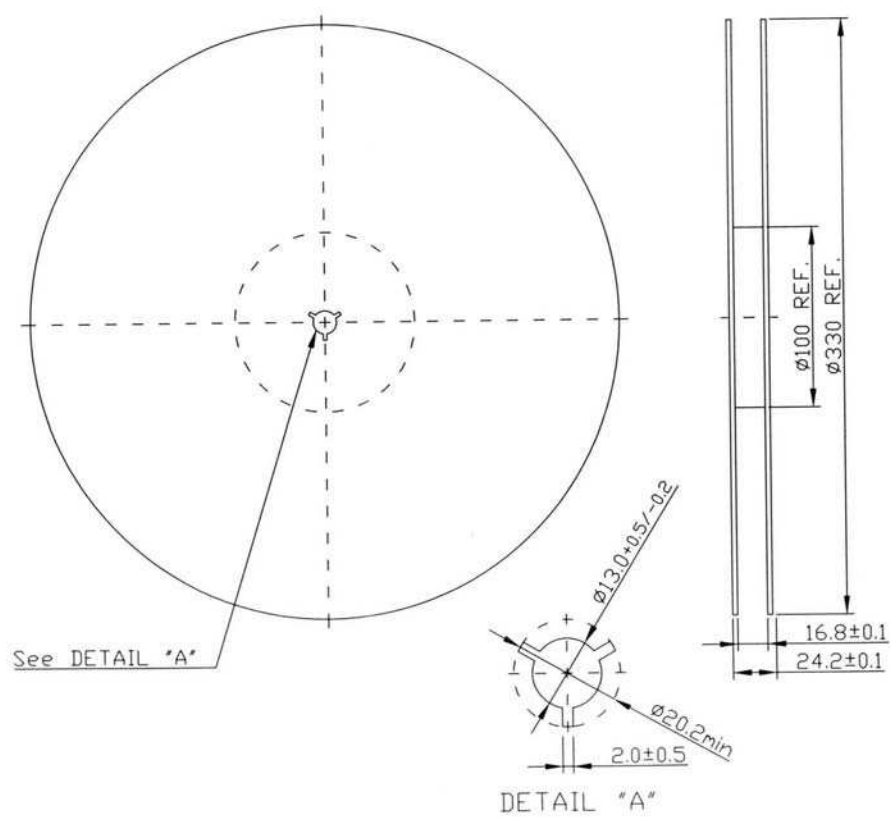
$$C1=5PF \quad C2=4PF$$

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F. MECHANICAL & ENVIRONMENTAL CHARACTERISTICS:

Test Item	Condition of Test	Requirements
Shock (Drop test)	random free drops 3 times from height of 0.75 meter onto hardwood board.	The specimens shall meet the electrical specifications
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	
Solderability (solder heat)	immersed pad in soldering bath at $245\pm 5^{\circ}\text{C}$ for 5 ± 0.5 seconds.	75% or more of the immersed surface shall be covered with solder
Temperature Characteristics	Specimens shall be measured within -10°C to $+50^{\circ}\text{C}$ temperature range	The specimens shall meet the electrical specifications
Dry heat (Aging test)	Temperature : $125 \pm 2^{\circ}\text{C}$ Duration : 250 hours	
Cold resistance	Temperature : $-40 \pm 3^{\circ}\text{C}$ Duration : 96 hours	
Thermal Shock	Heat cycle conditions -55°C 25°C 85°C (30 min) (5 min) (30 min) Cycle time : 5 times	

G. PACKING:
 1. REEL DIMENSION



2. TAPE DIMENSION

