



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 2122.5MHz

TST Parts No.:TA0228A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Elvis Chiu

Approval by:_____Francis Chen

Date:_____2002/11/29



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SAW Filter 2122.5 MHz

MODEL NO.: TA0228A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

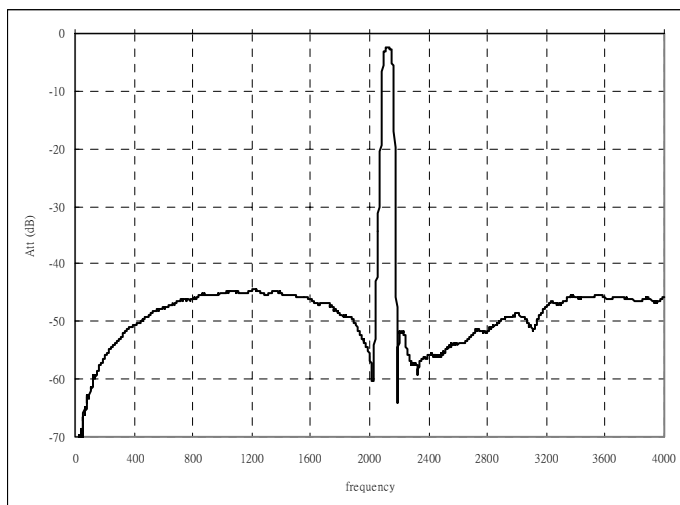
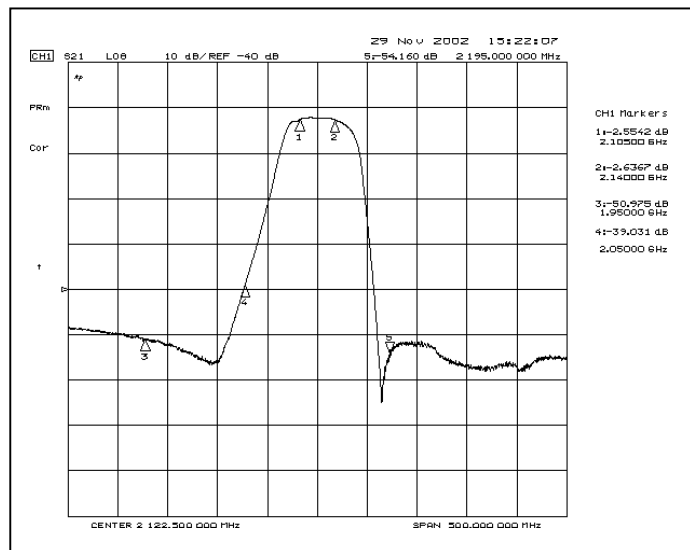
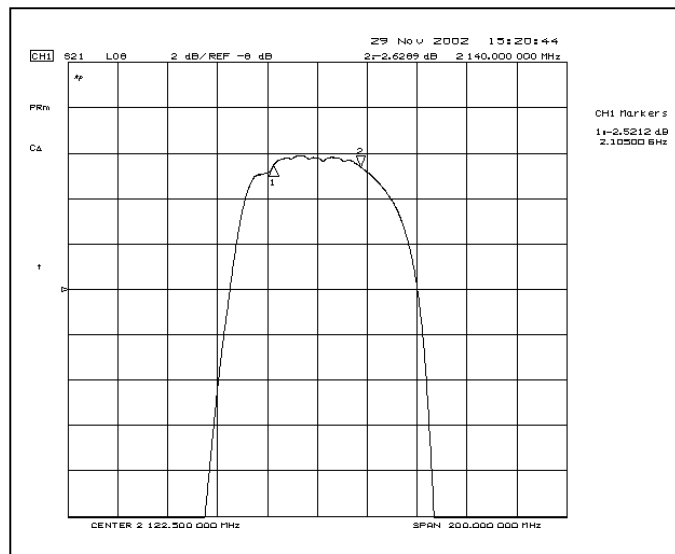
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Characteristics			Specification			Note
			Min.	Typ.	Max	
Center frequency	F_c	MHz	-	2122.5	-	-
Insertion loss	2105~2140 MHz	dB	-	3.0	4.0	-
Amplitude ripple	2105~2140 MHz	dB	-	1.1	2.0	-
V.S.W.R	2105~2140 MHz		-	1.5	2.4	-
Group delay ripple	2105~2140 MHz	ns		7	16	
Attenuation:(Reference level from 0 dB)						
0 ~ 1950MHz		dB	33	42	-	-
1950 ~ 2050MHz		dB	25	37	-	-
2195 ~ 2295 MHz		dB	25	51	-	-
2295 ~ 3400 MHz		dB	31	50	-	-
3400 ~ 4000 MHz		dB	23	45	-	-
Impedance at F_c	Input $Z_{IN}=R_{IN}/C_{IN}$		50Ω // 0 PF			1
	Output $Z_{OUT}=R_{OUT}/C_{OUT}$		50Ω// 0 PF			1

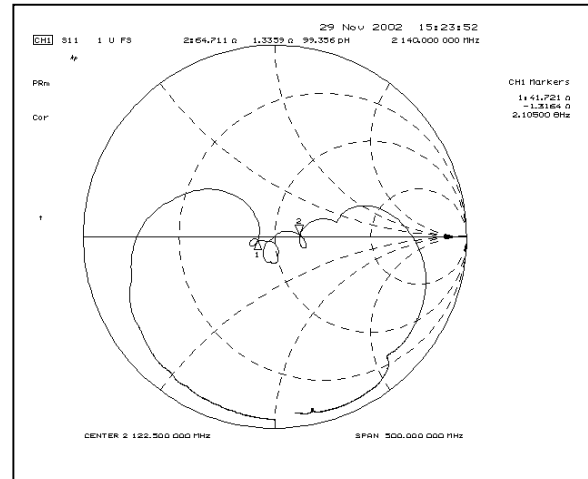
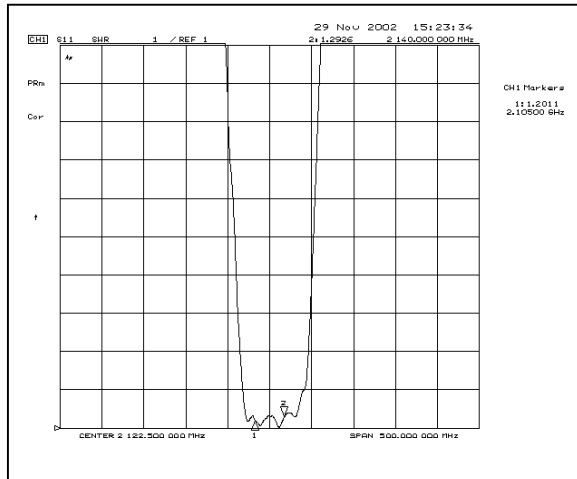
Note1. No matching network required for operation at 50

C. Transfer Function :

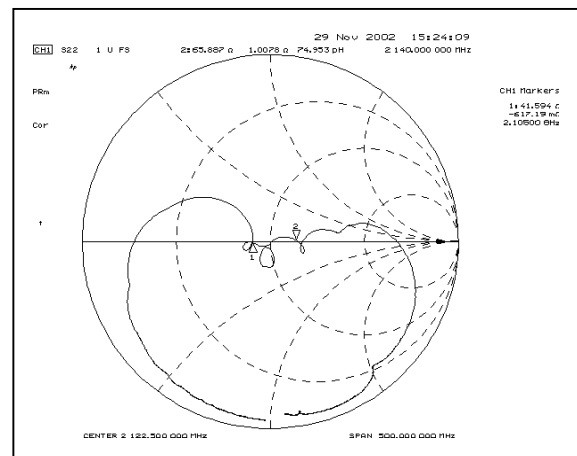
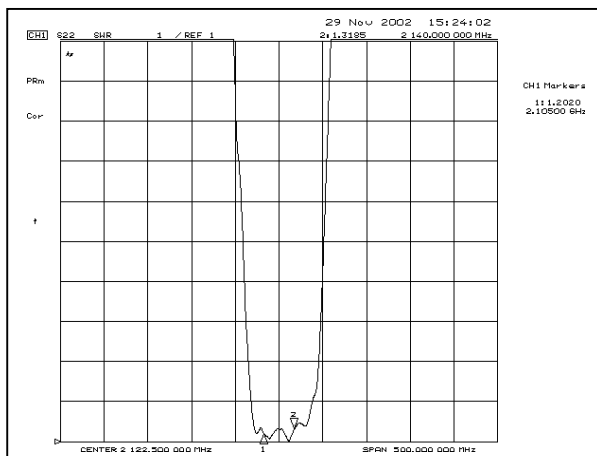


D. Reflections Functions :

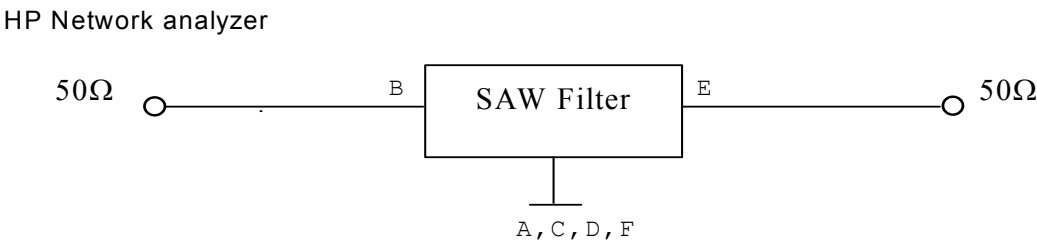
S11



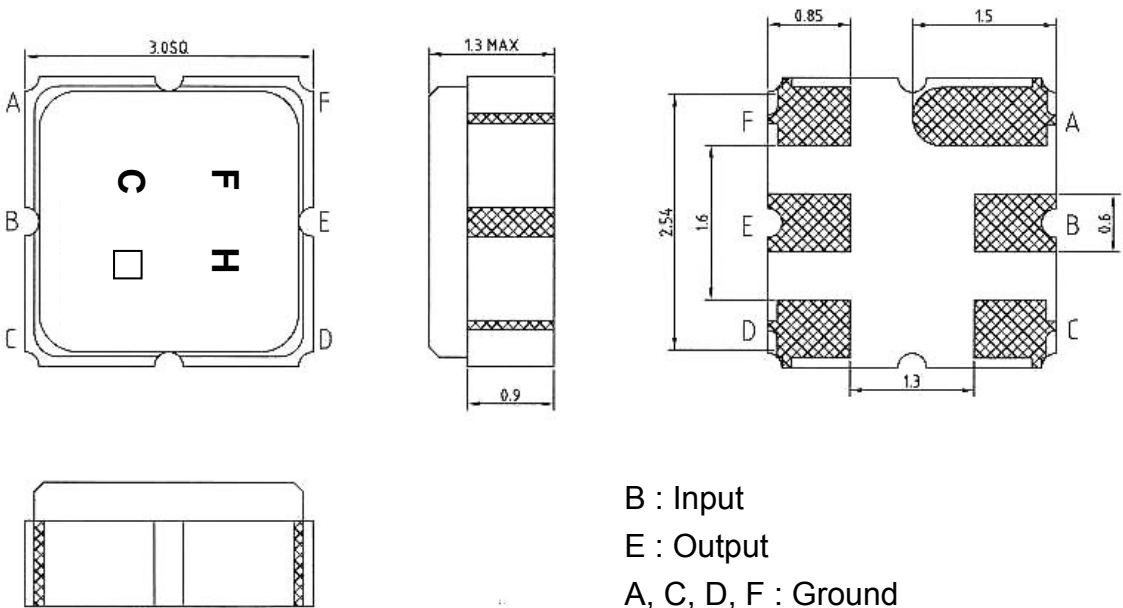
S22



E. MEASUREMENT CIRCUIT:



F.OUTLINE DRAWING:



B : Input
 E : Output
 A, C, D, F : Ground
 □ : Date code
 Unit : mm

1. REEL DIMENSION

Technical drawing of a circular component. The main view shows a large circle with a central hole. A dashed circle indicates the hole's boundary. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right, a vertical section view shows the component's profile with dimensions: a total width of 12.0, an inner hole diameter of $\phi 100$ REF., and an outer diameter of $\phi 330$ REF.

See DETAIL 'A'

$\phi 100$ REF.
 $\phi 330$ REF.
12.0

Detail 'A' shows a cross-section of the central hole. It is a circular hole with a diameter of $\phi 13.0$. The hole is surrounded by a material with a thickness of 2.0. The hole is located at the center of the component.

$\phi 13.0$
2.0
 $\phi 20.2$

[illegible]