



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 916.45MHz SMD 3.0×3.0mm

TST Parts No.:TA0344A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Elvis Chiu

Approval by:_____Francis Chen

Date:_____2004/05/27



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SAW Filter 916.45 MHz

MODEL NO.: TA0344A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

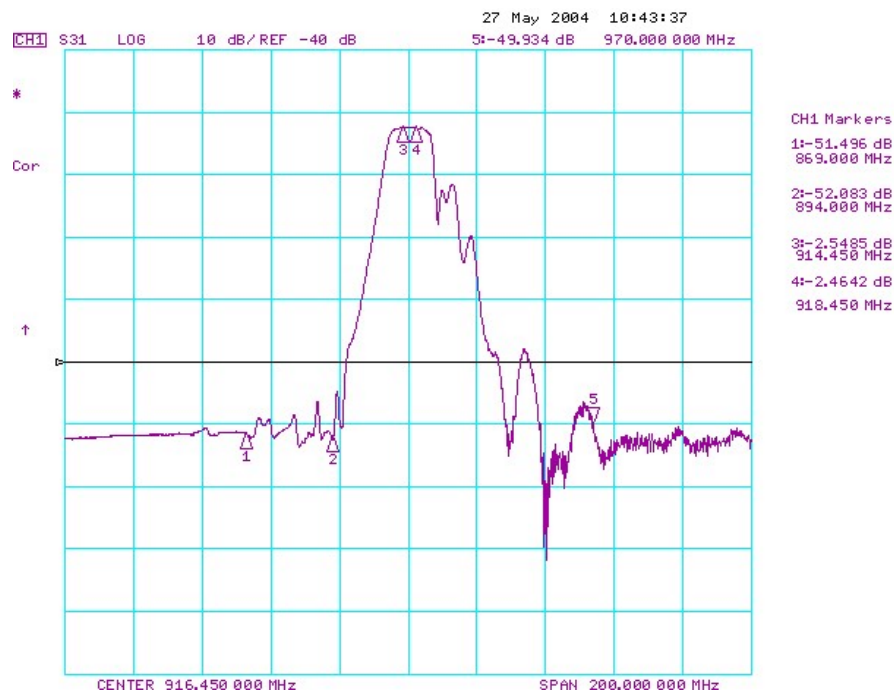
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency Fc MHz			-	916.45	-
Insertion loss	914.45 ~ 918.45 MHz	IL (dB)	-	2.7	3.5
Amplitude ripple	914.45 ~ 918.45 MHz	(dB)	-	0.3	1.0
VSWR	914.45 ~ 918.45 MHz		-	1.5	2.0
Absolute Attenuation					
	D.C. ~ 600 MHz	(dB)	50	57	-
	600 ~ 840 MHz	(dB)	40	51	-
	869 ~ 894 MHz	(dB)	35	46	-
	970 ~ 1500 MHz	(dB)	40	47	-
	1500 ~ 3000 MHz	(dB)	25	32	-
Source impedance	Z_s (Ω)		-	50	-
Load impedance	Z_L (Ω)		-	50	-

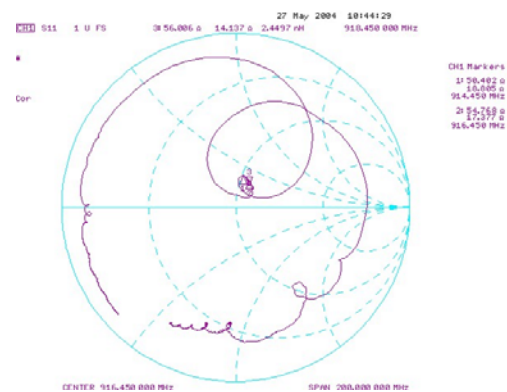
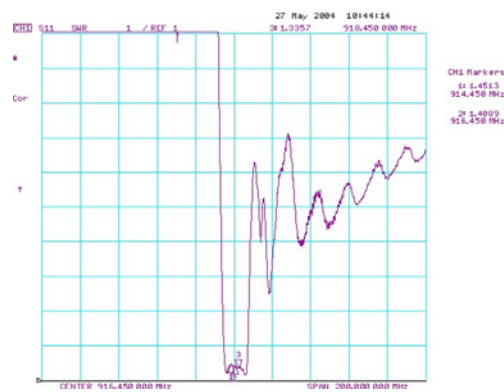
Note1. No matching network required for operation at 50 Ω

C. Frequency Characteristics :

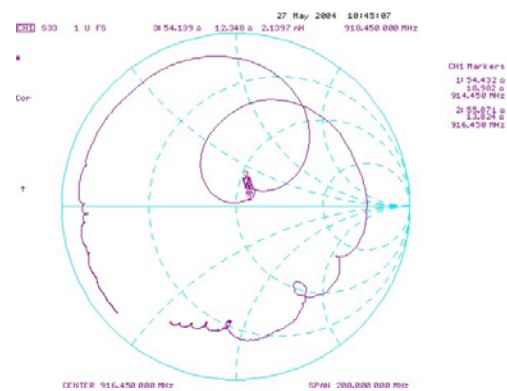
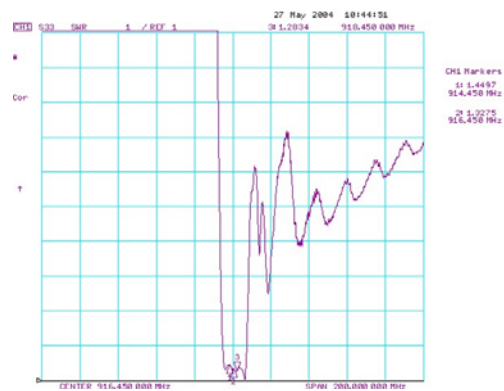


D.Reflections Functions :

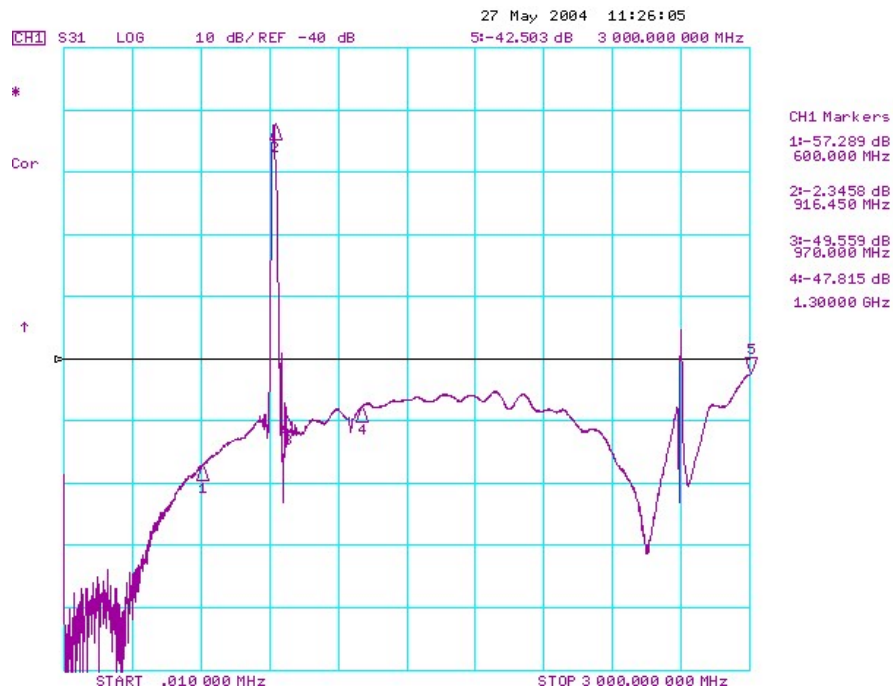
S11:



S22:

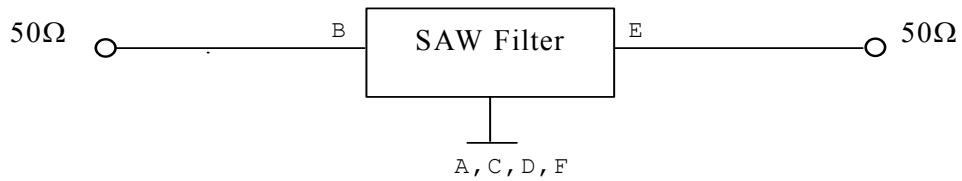


Wideband

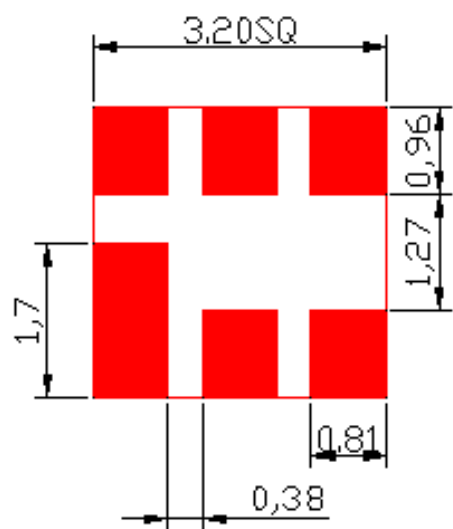


E. MEASUREMENT CIRCUIT:

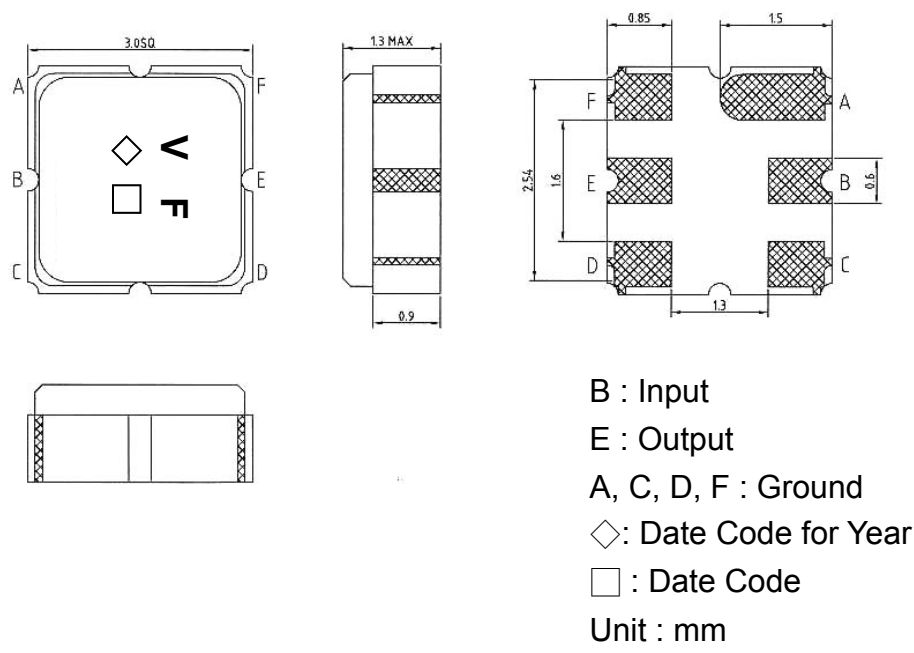
HP Network analyzer



F. PCB Footprint:



G.OUTLINE DRAWING:



1. REEL DIMENSION

Technical drawing showing a circular cross-section of a structural member. The drawing includes a center line (dashed line) and a central hole (dashed circle). A dimension line indicates the diameter of the hole is $\phi 130$. A note points to the center of the hole: "See DETAIL 'A'".

Side view dimensions (from left to right):

- Overall diameter: $\phi 330$ REF.
- Inner diameter: $\phi 100$ REF.
- Radius: 120