



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 942.5MHz SMD 3.0x3.0

TST Parts No.:TA1004A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang 張閔智

Approval by: _____ Francis Chen 陳啟

Date: _____ 2009/03/26



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SAW Filter 942.5 MHz

MODEL NO.: TA1004A

REV. NO.:1

A. MAXIMUM RATING:

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

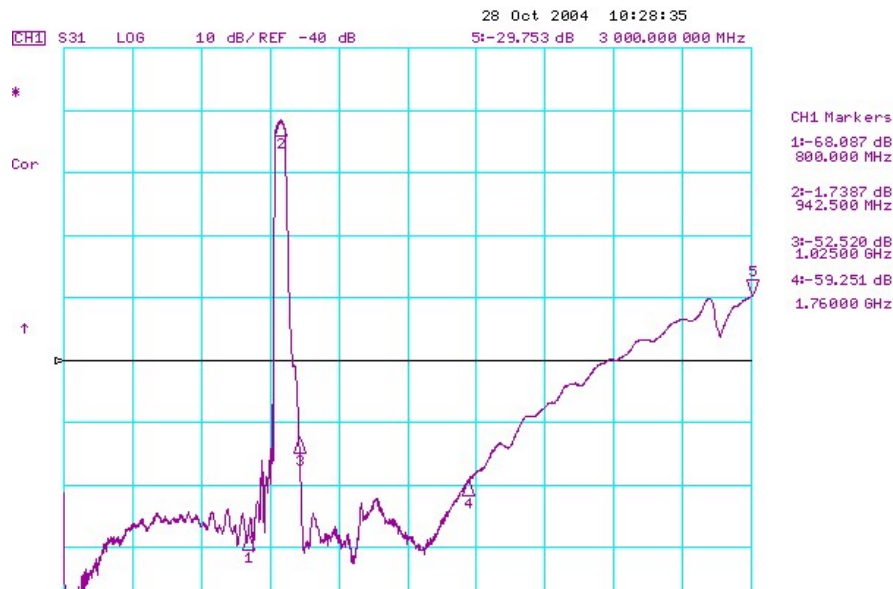
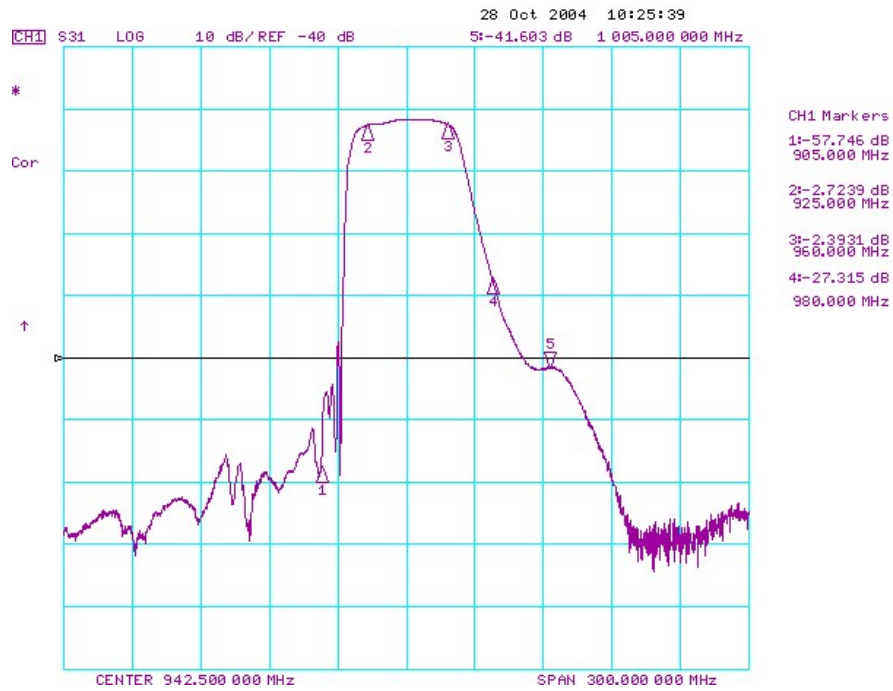
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Characteristics				Specification			Note
				Min.	Typ.	Max.	
Center frequency	F _c	MHz		-	942.5	-	-
Insertion loss	925~960 MHz	I.L.	dB	-	2.8	4.0	-
Ripple	925~960 MHz		dB	-	1.1	2.3	-
VSWR	925~960 MHz			-	1.5	2.1	
Attenuation: (Reference level from 0 dB)							
0 ~ 800 MHz			dB	50	60	-	-
800 ~ 880 MHz			dB	40	53	-	-
880 ~ 905 MHz			dB	30	47	-	-
980 ~ 982 MHz			dB	16	27	-	-
982 ~ 1005 MHz			dB	23	29	-	-
1005 ~ 1025 MHz			dB	29	41	-	-
1025 ~ 1760 MHz			dB	40	48	-	-
1760 ~ 2300 MHz			dB	30	40	-	-
2300 ~ 3000 MHz			dB	20	28	-	-
Source Impedance	Z _s	Ω			50		1
Load Impedance	Z _L	Ω			50		1

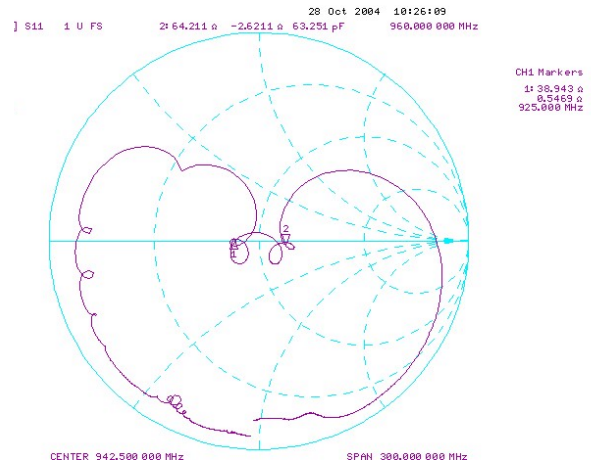
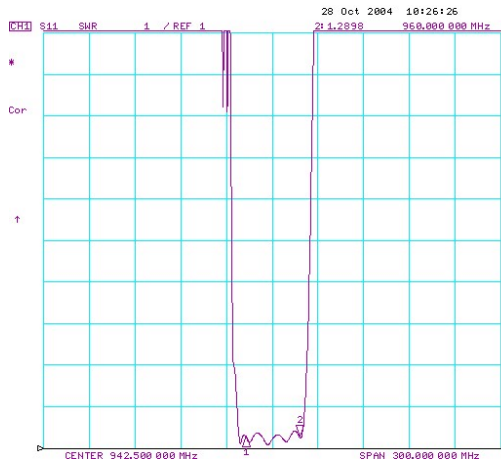
Note1. No matching network required for operation at 50 Ω

C. Transfer Function :

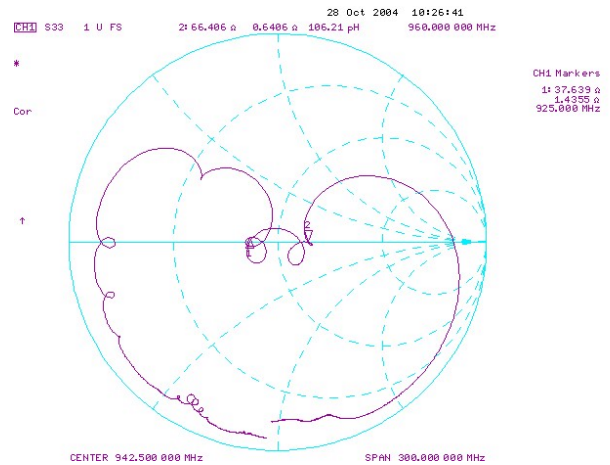
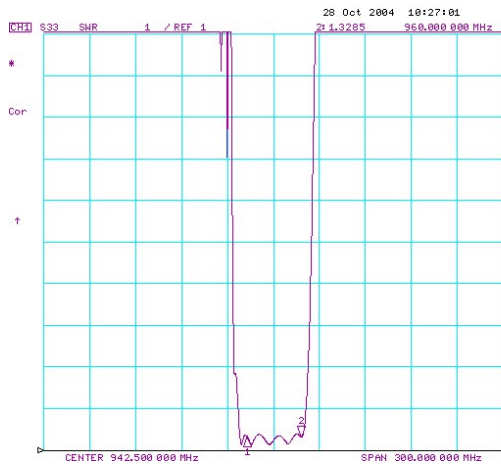


D. Reflections Functions :

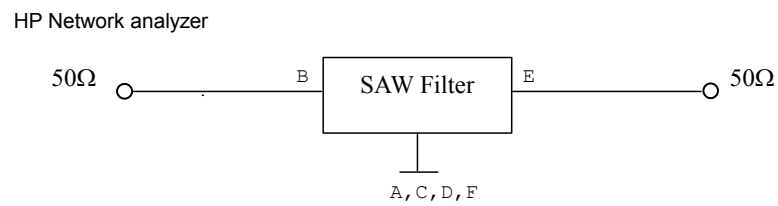
S11



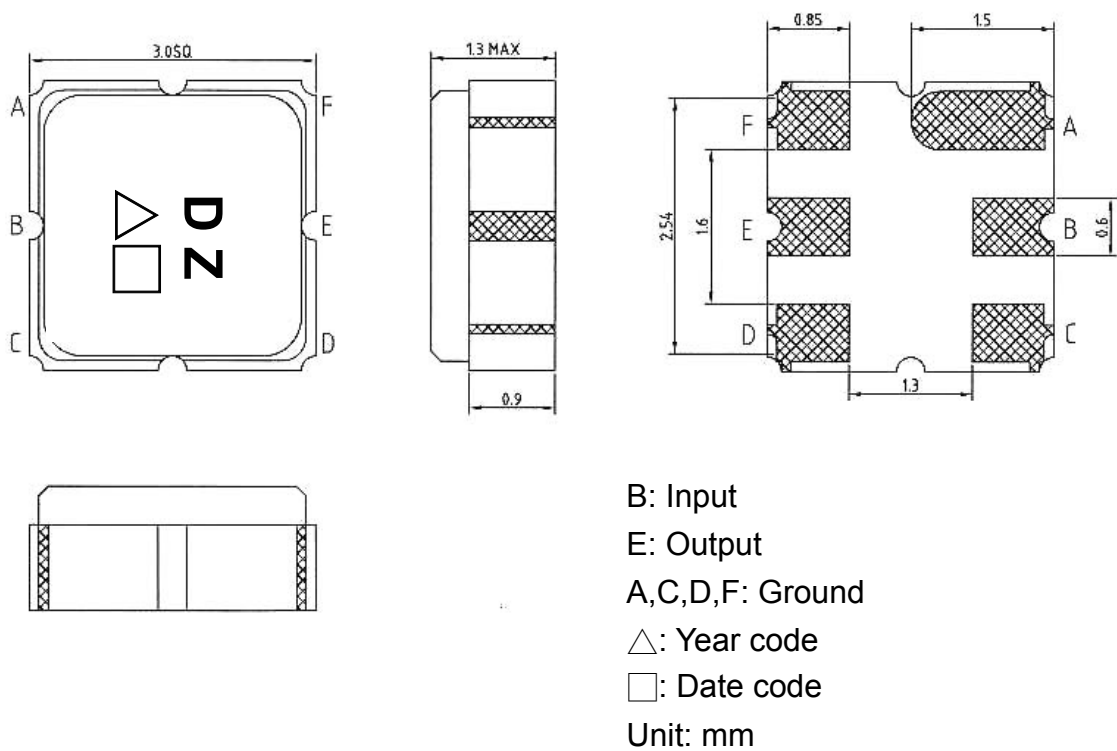
S22



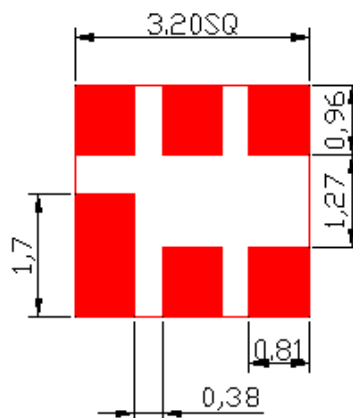
E. MEASUREMENT CIRCUIT:



F.OUTLINE DRAWING:



G. PCB FOOTPRINT:



1. REEL DIMENSION

Technical drawing of a circular plate. 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 side view shows the plate's thickness and two reference diameters: $\phi 100$ REF. and $\phi 330$ REF. Below the main view, a detailed view of the central hole is shown, labeled "A". It features a central hole with a diameter of $\phi 13.0$ and a surrounding flange with a diameter of $\phi 20.2$. The flange has a thickness of 2.0.

Technical drawing of a 12V 100Ah battery, showing dimensions and labels for the top, side, and cross-sectional views.

Top View Dimensions:

- Overall width: 120
- Overall height: 175
- Distance between top terminals: 4.0
- Distance between bottom terminals: 8.0
- Terminal diameter: $\phi 1.5$
- Terminal spacing: 2.0
- Terminal width: 3.35
- Terminal height: 3.35
- Terminal shape: DZ (with symbols for positive and negative terminals)
- Terminal position: 3.35 from the side edge
- Terminal shape: R0.5 (TYP.)

Side View Dimensions:

- Overall height: 120
- Terminal diameter: $\phi 1.5$
- Terminal position: 3.35 from the side edge
- Terminal shape: R0.5 (TYP.)

Cross-sectional View Dimensions:

- Overall width: 120
- Terminal diameter: $\phi 1.5$
- Terminal position: 3.35 from the side edge
- Terminal shape: R0.5 (TYP.)

Labels:

- SECTION A-A
- SECTION B-B
- 12V 100Ah