



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 700 MHz SMD 25MHz BW SMD 3.0X3.0 mm

TST Parts No.: TA0617C

Customer Parts No.: _____

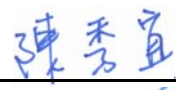
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 12, 19, 2013

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes



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SAW Filter 700MHz

MODEL NO.:TA0617C

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

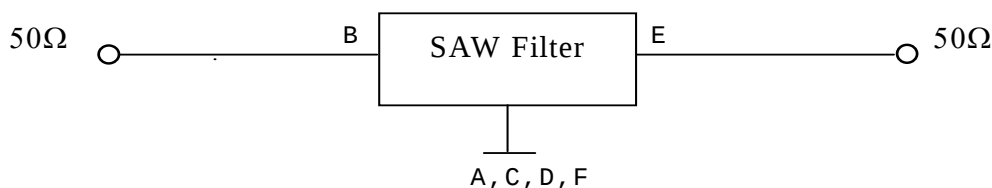
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

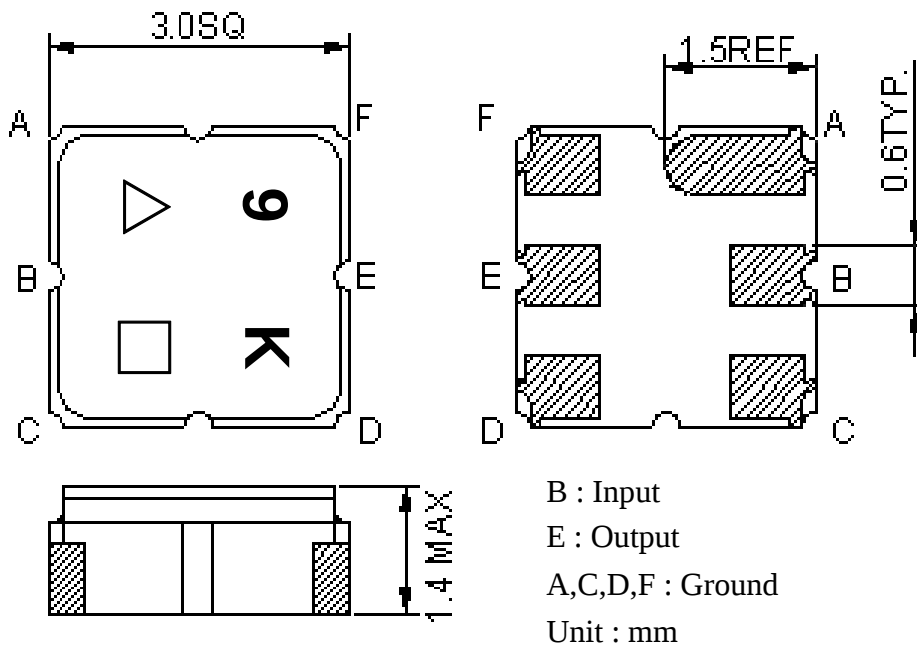
Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	700	-	-
Insertion Loss at Center Frequency ILc	dB	-	1.7	2.6	-
Bandwidth @-2dB		25	30	-	-
VSWR at Center Frequency		-	1.3	2	-
Attenuation (Reference level from ILc)					
608 ~ 614 MHz	dB	20	60	-	-
786 ~ 792 MHz	dB	20	70	-	-
1308 ~ 1314 MHz	dB	45	60	-	-
1486 ~ 1492 MHz	dB	45	56	-	-
2008 ~ 2014 MHz	dB	35	40	-	-
2186 ~ 2192 MHz	dB	33	39	-	-
Temperature Coefficient of Frequency	ppm/°C		-36		

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D.OUTLINE DRAWING:



△ : Year Code (2016->6, ..., 2019->9)

□ : Date Code (Follow the table from planner each year)

Note :

The base material is ceramic with Au over Ni plating.

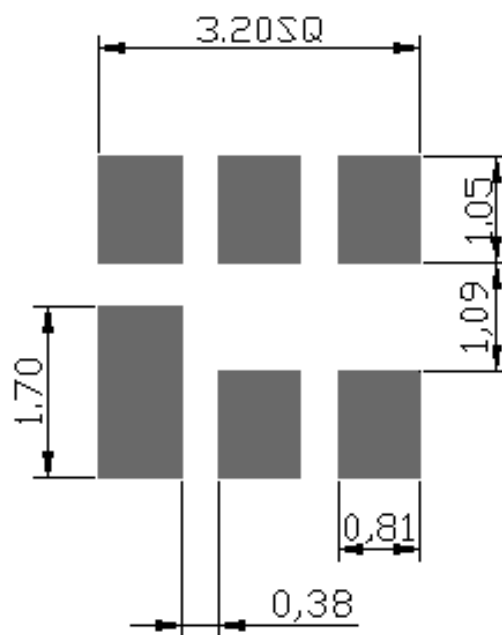
The plating thicknesses are:

Electro Ni : $1.27\sim 8.89 \mu m$.

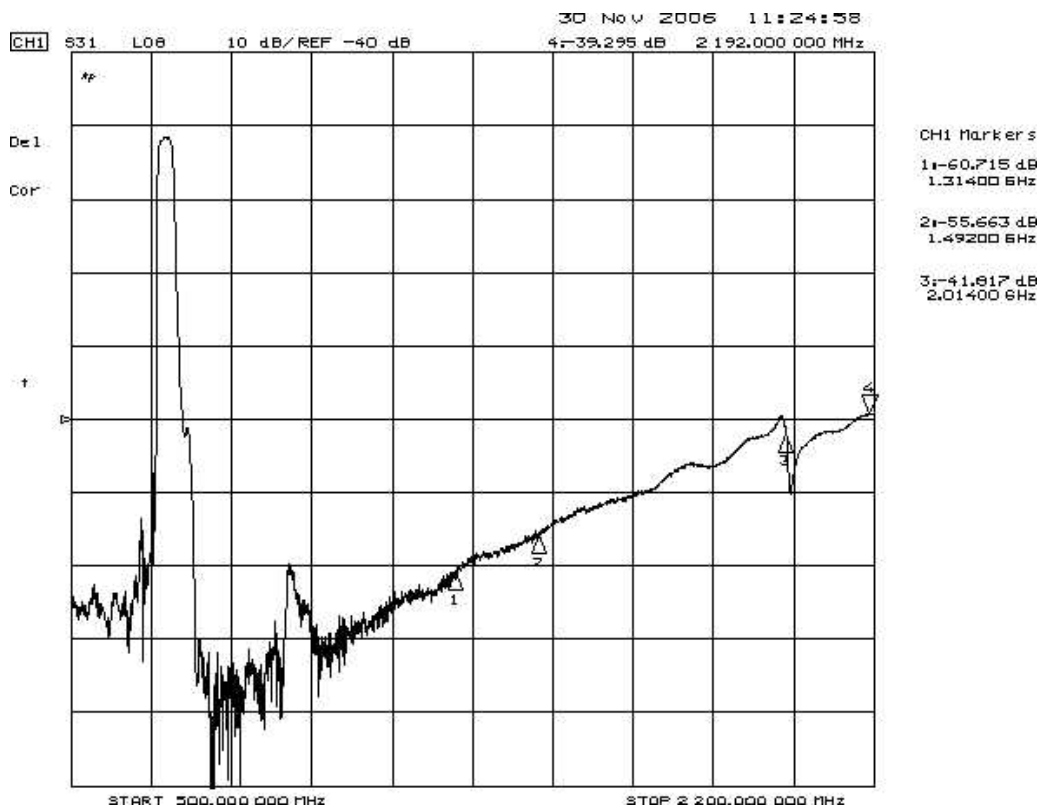
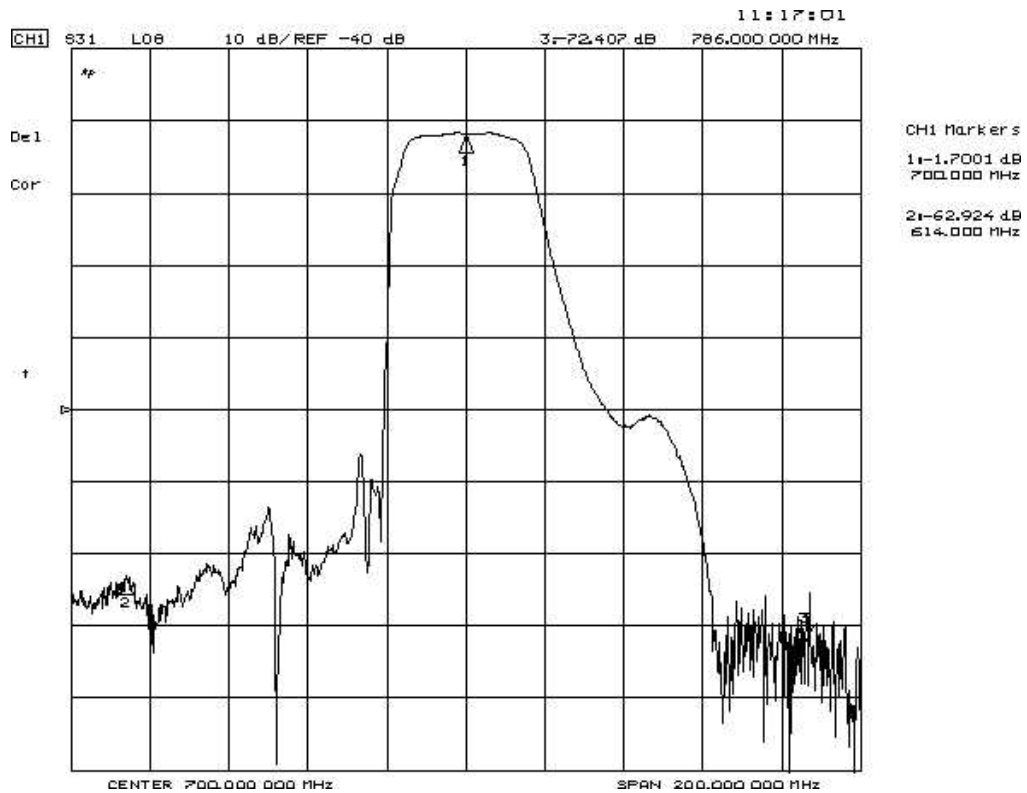
Electro Au : $0.3\sim 1.0 \mu m$ (solder pads only).

$0.3 \mu m$ Min. (Others)

E. PCB Footprint:

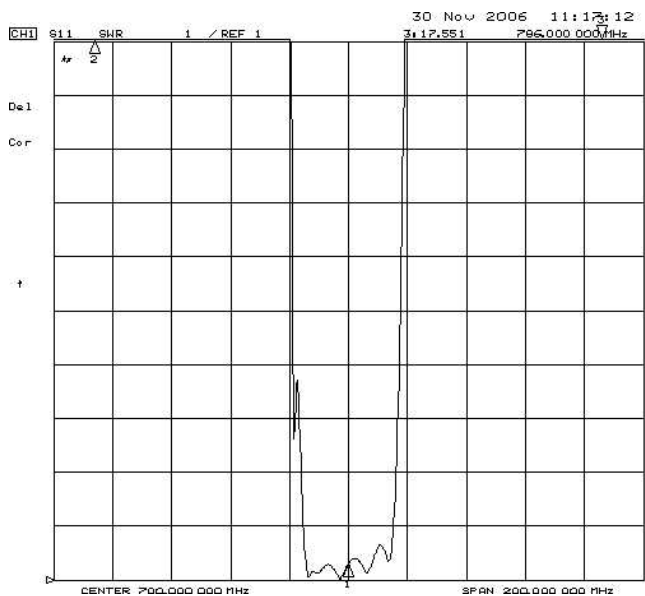


F. Frequency Characteristics :



Reflection Functions :

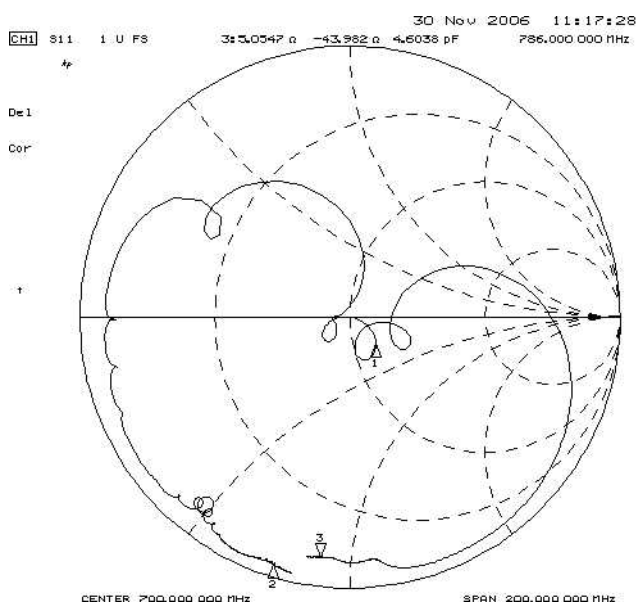
S11



CHI Markers

1: 1.3121
700.000 MHz

2: 42.420
614.000 MHz

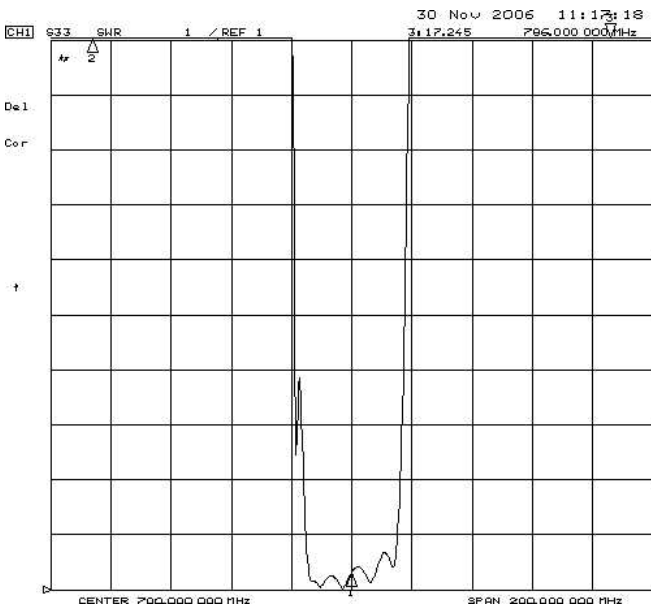


CHI Markers

1: 59.400 a
-11.437 a
700.000 MHz

2: 1.0320 a
-36.740 a
614.000 MHz

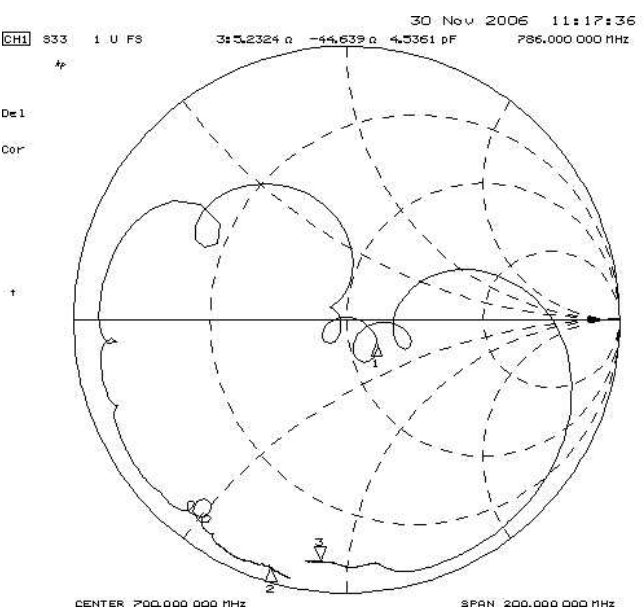
S22



CHI Markers

1: 1.3250
700.000 MHz

2: 38.393
614.000 MHz



CHI Markers

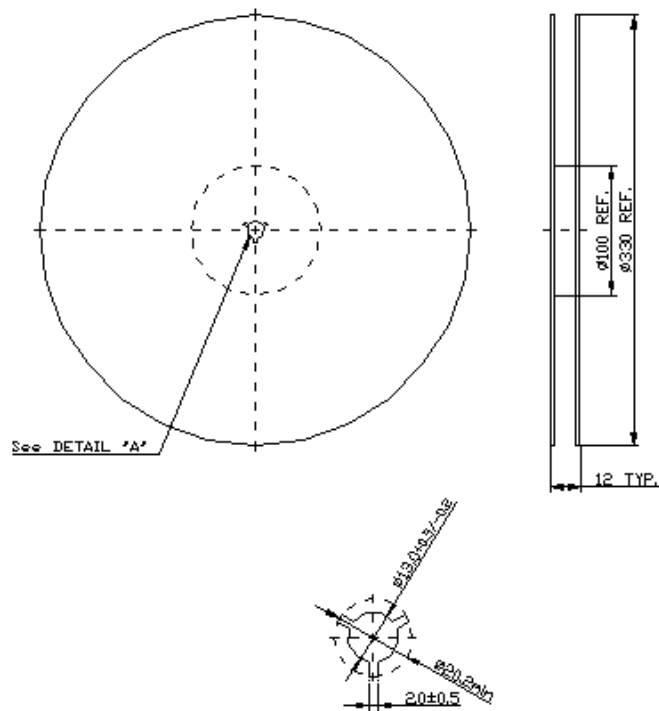
1: 61.533 a
-10.543 a
700.000 MHz

2: 1.9805 a
-37.006 a
614.000 MHz

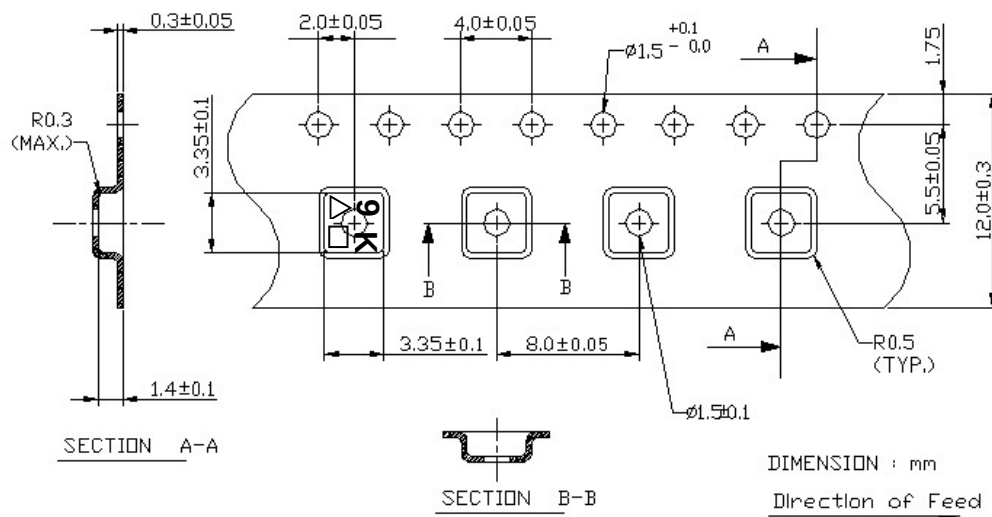
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=1000 ; 13"=3000)



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

