Approval Sheet For Product Specification

Issued Date: Oct, 17, 2008

Product Name: SAW Filter 1316 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0933A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau _Bob Chu_____

Approval by:_____ Francis Chen _____

Date:_____ 10, 17, 2008 _____

![TST logo]

TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
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E-mail: tstsales@mail.taisaw.com   Web: www.taisaw.com

SAW Filter 1316 MHz

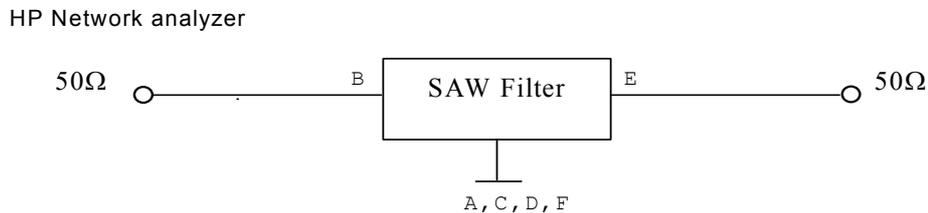MODEL NO.:TA0933A   REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm

2. DC Voltage : 3V

3. Operating Temperature: -50°C to +70°C

4. Storage Temperature: -50°C to +95°C

> **RoHS Compliant**
> **Lead free**
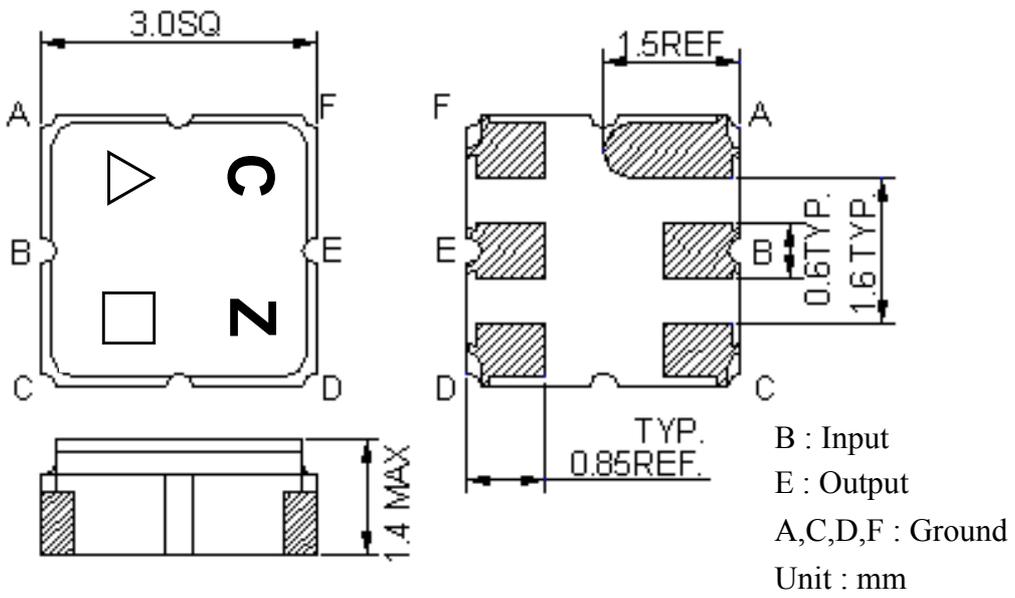> **Lead-free soldering**

B. ELECTRICAL CHARACTERISTICS:

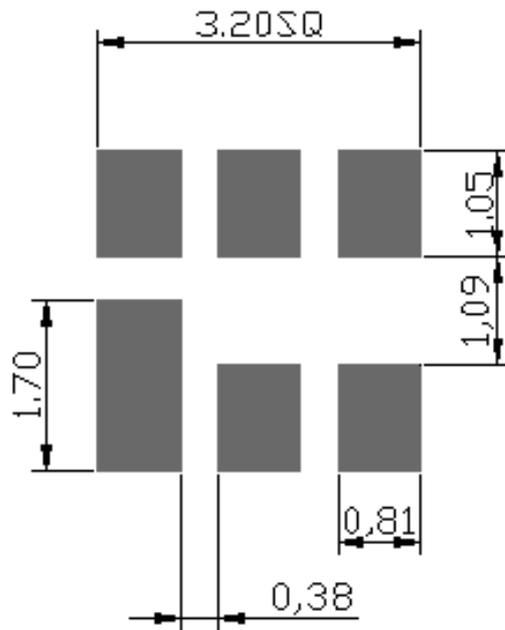| Item		Unit	Min.	Type.	Max.	Note
Center Frequency	**Fc**	MHz	-	1316	-	-
Min. Insertion loss	**IL**	dB	-	2	5	-
Bandwidth @ -3dB		MHz	50	61.5	-	-
Amplitude Ripple (1291~1341 MHz)		dB	-	1.3	3	-
VSWR (1291~1341 MHz)			-	1.8	2.5	-
Attenuation (Reference level from 0 dB)						
800 ~ 1220 MHz		dB	45	53	-	-
1440 ~ 1800 MHz		dB	40	50	-	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω ⊸————— B [SAW Filter] E —————⊸ 50Ω

A,C,D,F

D.OUTLINE DRAWING:
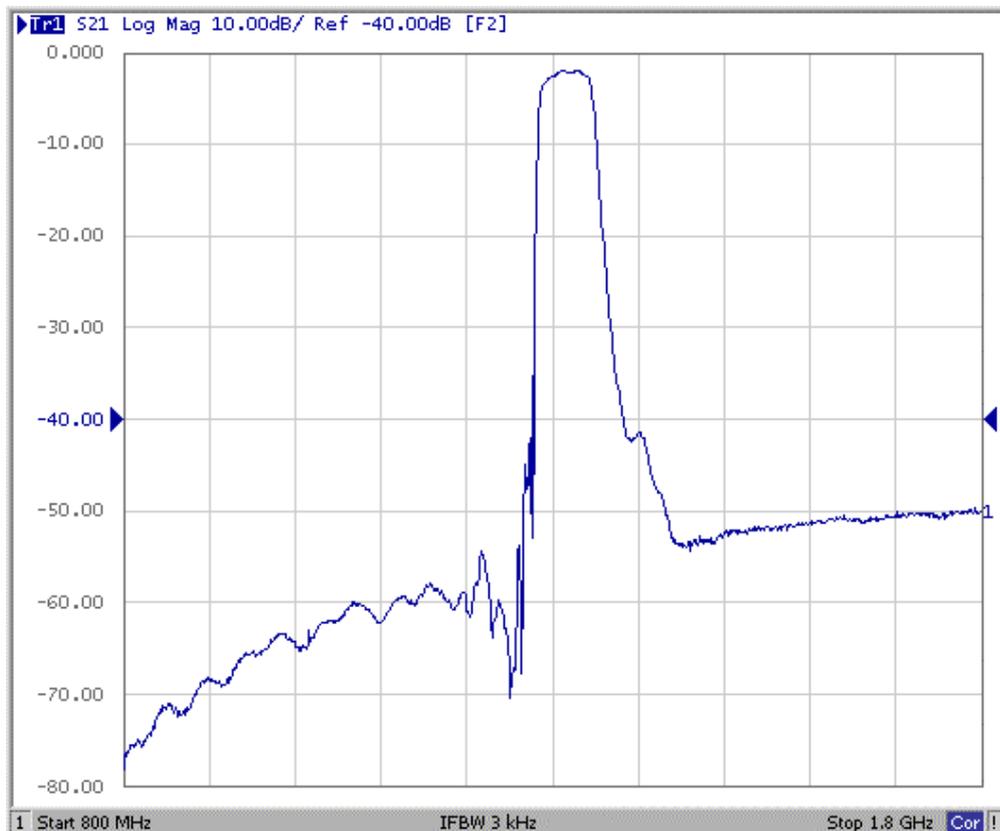

B : Input
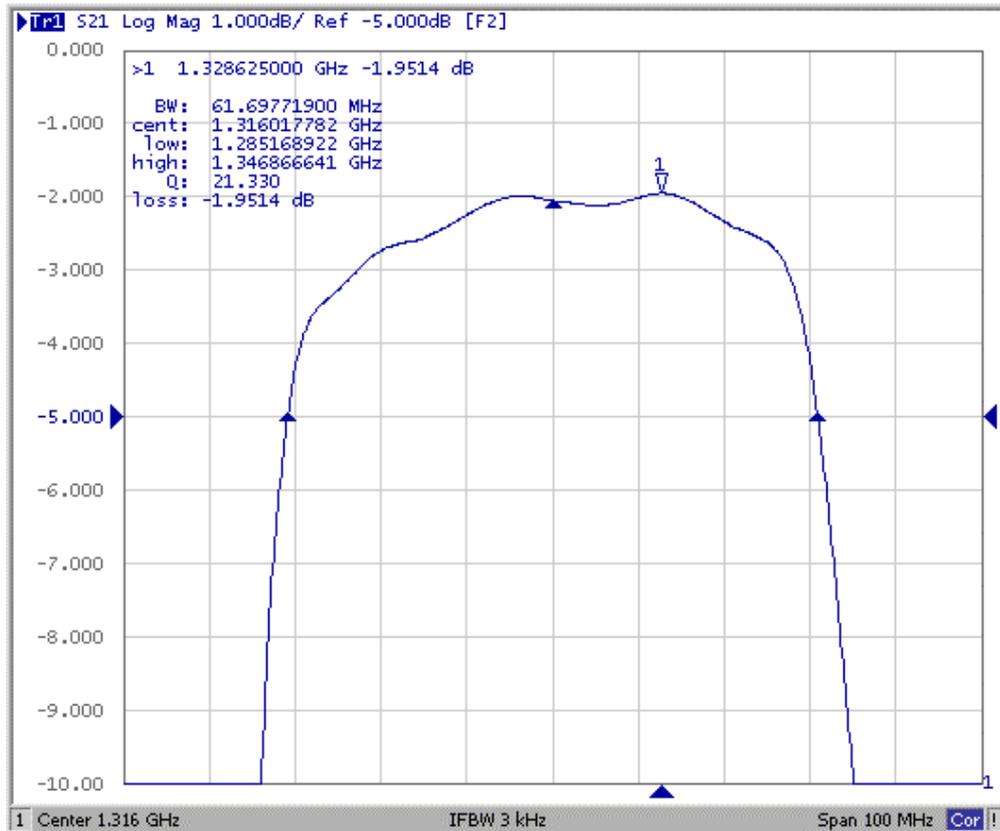E : Output
A,C,D,F : Ground
Unit : mm

△ : Year Code (2006->6, …, 2009->9)
□ : Date Code (Follow the table from planner each year)

E. PCB Footprint:

F. Frequency Characteristics :

Tr1 S21 Log Mag 1.000dB/ Ref -5.000dB [F2]

```
>1  1.328625000 GHz -1.9514 dB

   BW:   61.69771900 MHz
 cent:   1.316017782 GHz
  low:   1.285168922 GHz
 high:   1.346866641 GHz
    Q:   21.330
 loss:  -1.9514 dB
```

1 Center 1.316 GHz   IFBW 3 kHz   Span 100 MHz Cor !

Tr1 S21 Log Mag 10.00dB/ Ref -40.00dB [F2]

1 Start 800 MHz   IFBW 3 kHz   Stop 1.8 GHz Cor !

Reflection Functions :

Tr2 S11 SWR 1.000/ Ref 2.000 [F2]

1	1.291000000 GHz	1.5001
>2	1.341000000 GHz	1.4159

1 Center 1.316 GHz   IFBW 3 kHz   Span 100 MHz Cor !

Tr3 S22 SWR 1.000/ Ref 2.000 [F2]

1	1.291000000 GHz	1.5445
>2	1.341000000 GHz	1.4520

1 Center 1.316 GHz   IFBW 3 kHz   Span 100 MHz Cor !

G. PACKING:

1. REEL DIMENSION
   (Reel Count : 7"=1000 ; 13"=3000)

See DETAIL 'A'

ø100 REF.
ø330 REF.
12 TYP.

ø13.0+0.5/-0.2
ø21.2min
2.0±0.5

2.TAPE DIMENSION

0.3±0.05
2.0±0.05
4.0±0.05
ø1.5 +0.1/-0.0
A
1.75

R0.3 (MAX.)
3.35±0.1
5.5±0.05
12.0±0.3

B
B

3.35±0.1
8.0±0.05
A

R0.5 (TYP.)

1.4±0.1

SECTION A-A

SECTION B-B

ø1.5±0.1

DIMENSION : mm

Direction of Feed
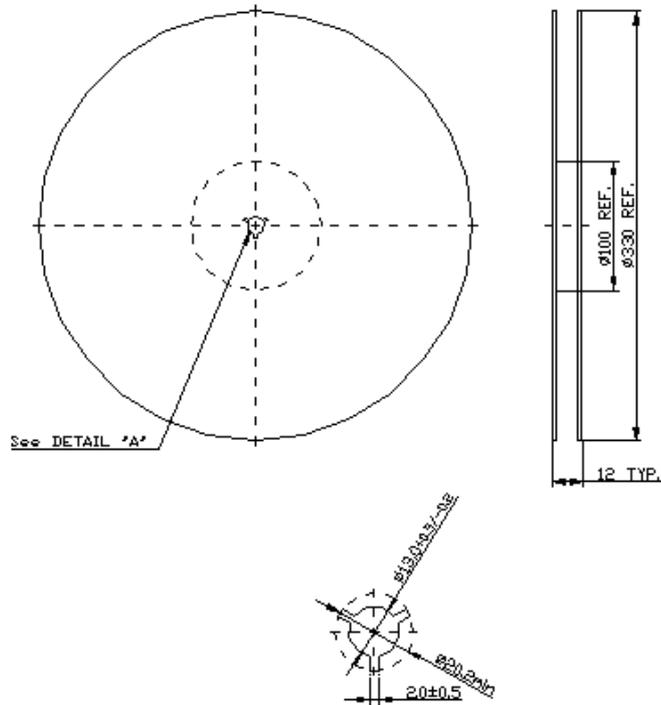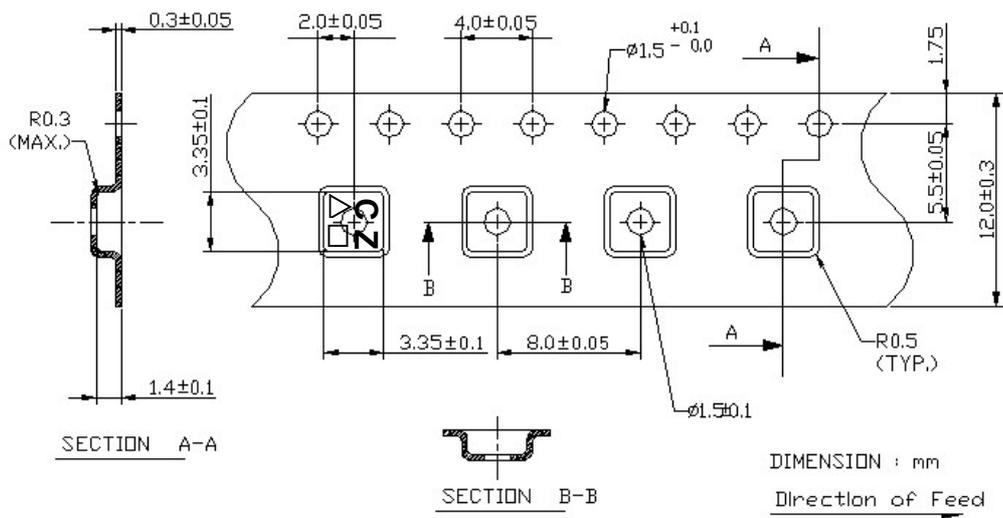
H. RECOMMENDED REFLOW PROFILE :