TAI-SAW TECHNOLOGY CO., LTD.

Approval Sheet For Product Specification

Issued Date: Apr, 18, 2007

Product Name: SAW Filter 920 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0666A

Customer Parts No.:＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

Company:＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

Division:＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

Approved by :＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

Date:＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

Checked by:＿＿＿＿＿＿＿＿＿＿Bob Chau＿＿＿＿＿＿＿＿＿＿

Approval by:＿＿＿＿＿＿＿＿＿＿Francis Chen＿＿＿＿＿＿＿＿

Date:＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿4, 18, 2007＿＿＿＿＿＿＿＿

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Taoyuan, 324, Taiwan, R.O.C.
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SAW Filter 920 MHz

MODEL NO.:TA0666A   REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30°C to +85°C
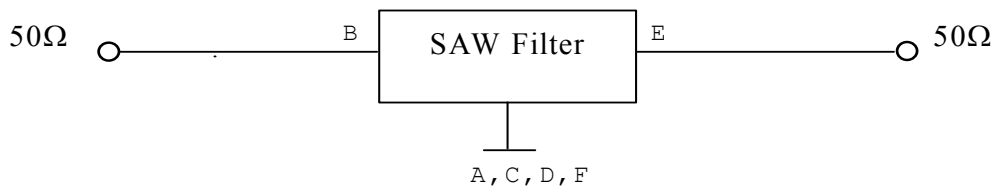4. Storage Temperature: -40°C to +85°C

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

B. ELECTRICAL CHARACTERISTICS:

Item		Unit	Min.	Type.	Max.	Note
Center Frequency	**Fc**	MHz	-	920	-	-
Insertion Loss (900 ~ 940 MHz)	**IL**	dB	-	3.9	4.8	-
Amplitude Ripple (variation over 3MHz)		dB	-	0.3	1	-
VSWR (900 ~ 940 MHz)			-	1.7	2.5	-
Group Delay Ripple (variation over 3MHz)		ns	-	15	30	-
Attenuation (Reference level from 0 dB)						
D.C. ~ 850 MHz		dB	40	53	-	-
850 ~ 880 MHz		dB	20	48	-	-
960 ~ 1000 MHz		dB	20	29	-	-
1000 ~ 2000 MHz		dB	40	49	-	-

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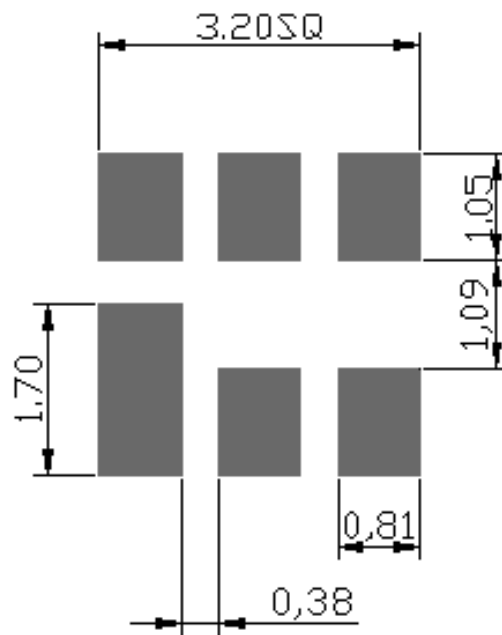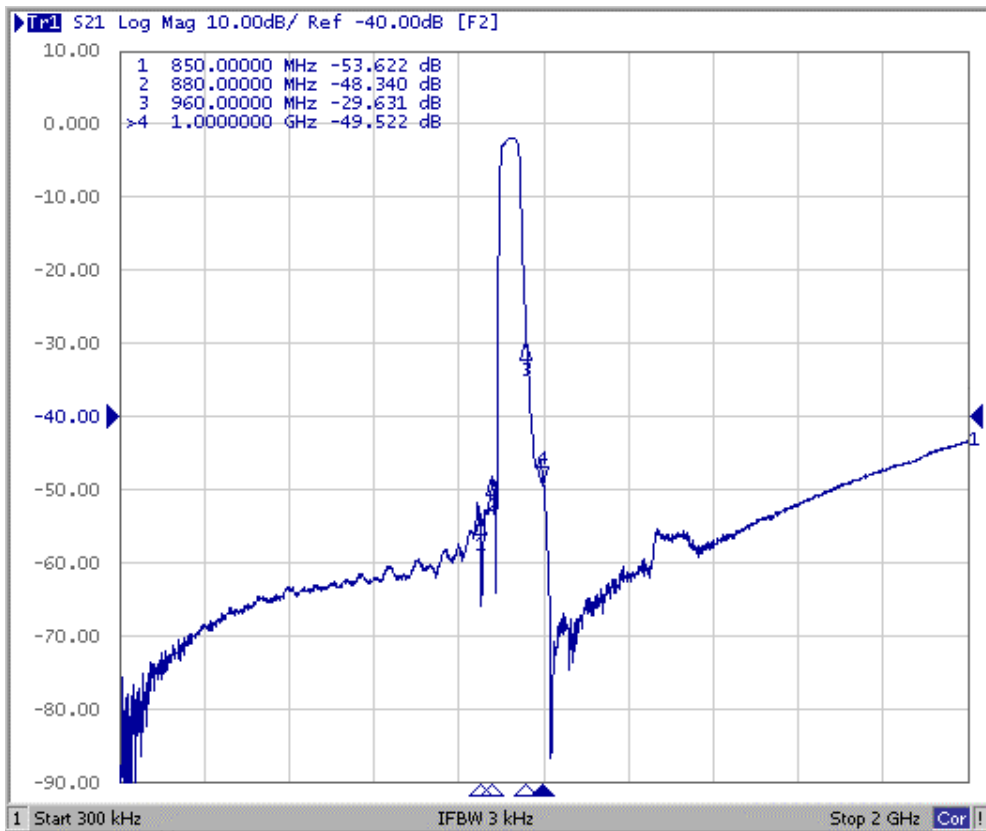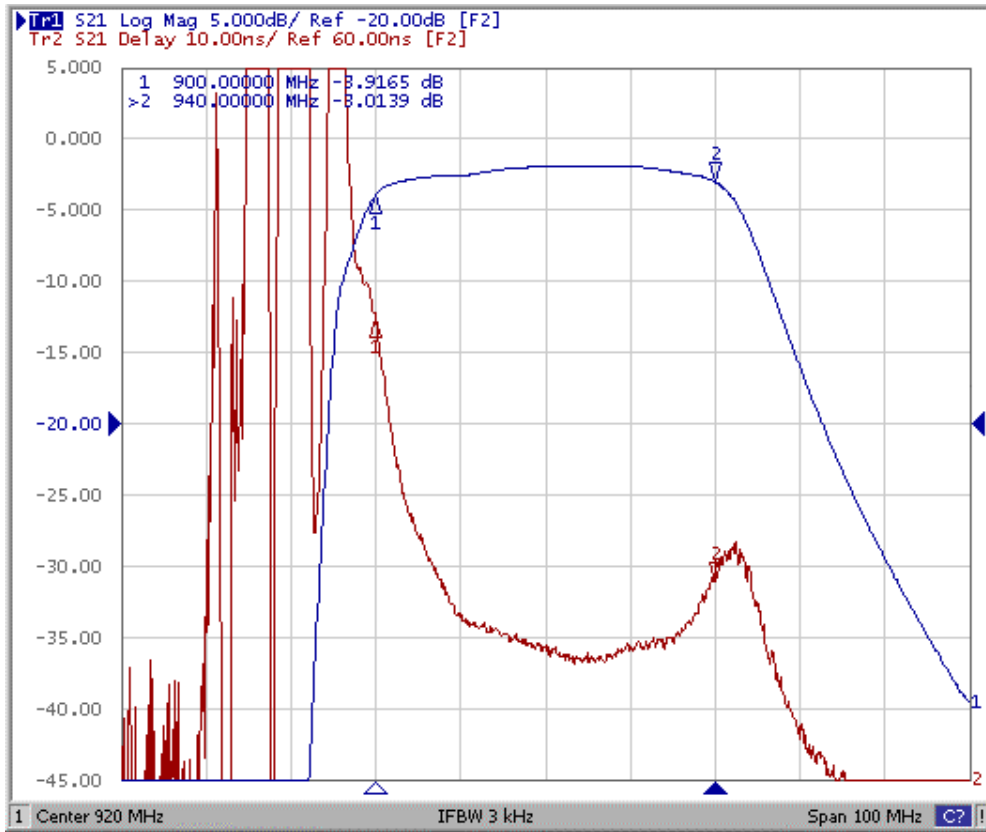Unit : mm
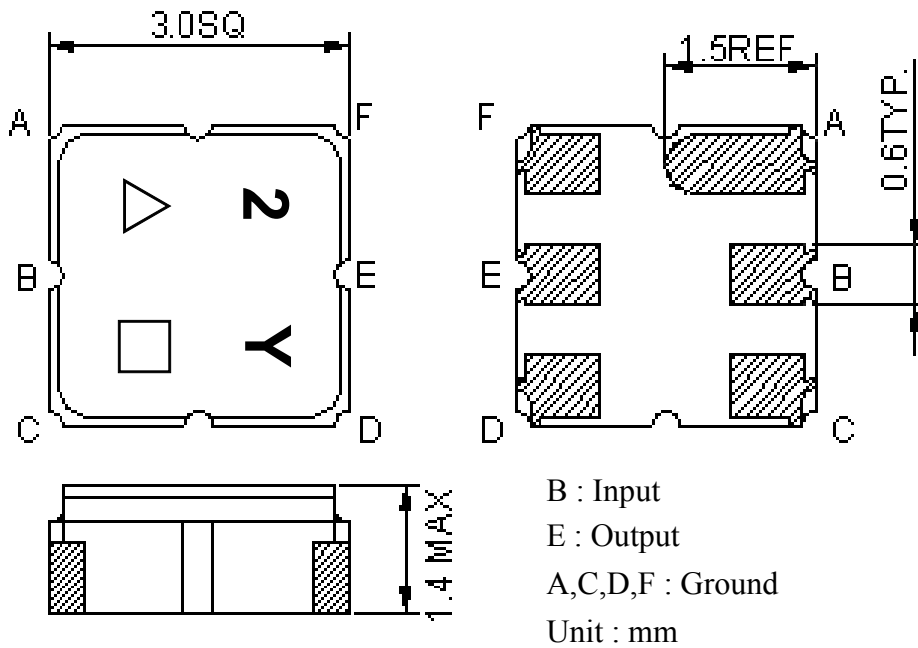
△ : Year Code (2006->6, …, 2009->9)
□ : Date Code (Follow the table from planner each year)

E. PCB Footprint:

F. Frequency Characteristics :
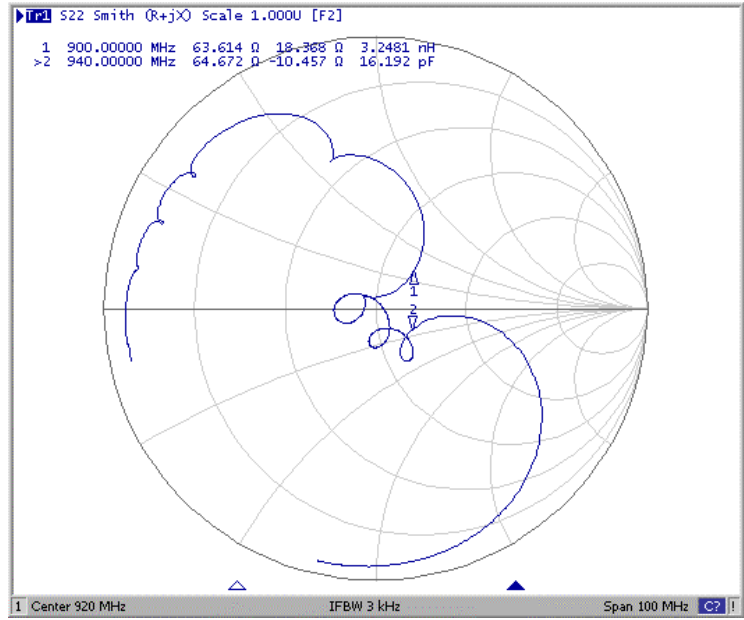

Tr1 S21 Log Mag 5.000dB/ Ref -20.00dB [F2]
Tr2 S21 Delay 10.00ns/ Ref 60.00ns [F2]

| | 1 | 900.00000 MHz | -3.9165 dB |
| | >2 | 940.00000 MHz | -3.0139 dB |

5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
-45.00

1 Center 920 MHz   IFBW 3 kHz   Span 100 MHz

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

	1	850.00000 MHz	-53.622 dB
	2	880.00000 MHz	-48.340 dB
	3	960.00000 MHz	-29.631 dB
	>4	1.0000000 GHz	-49.522 dB

10.00
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00

1 Start 300 kHz   IFBW 3 kHz   Stop 2 GHz

TAI-SAW TECHNOLOGY CO., LTD.   **TST DCC**   4
Release document

Reflection Functions :

S11
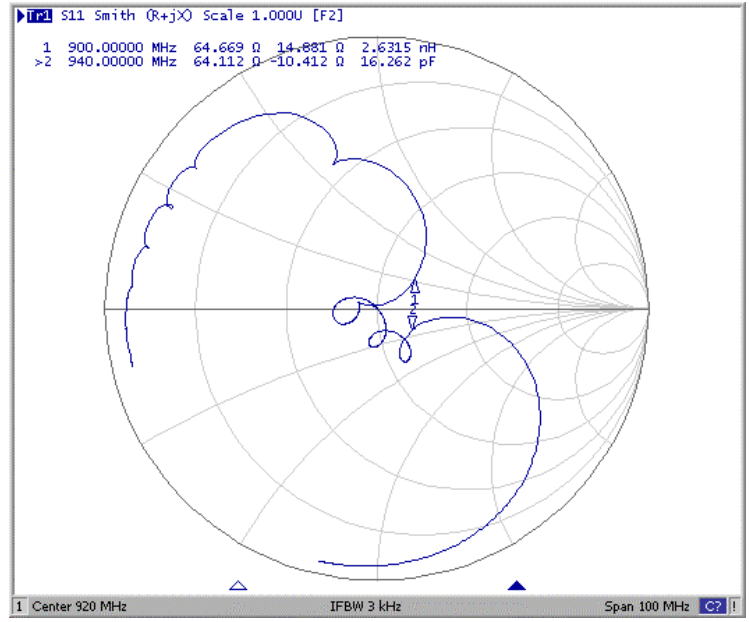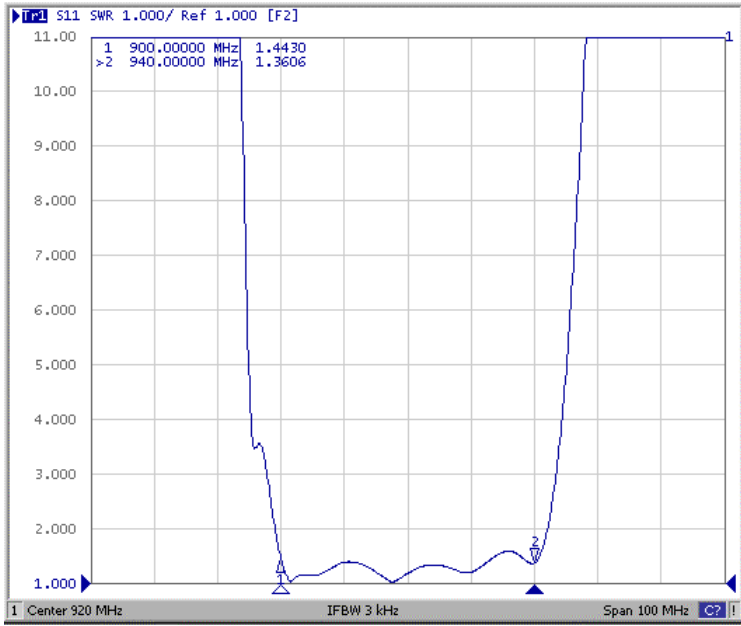
S22
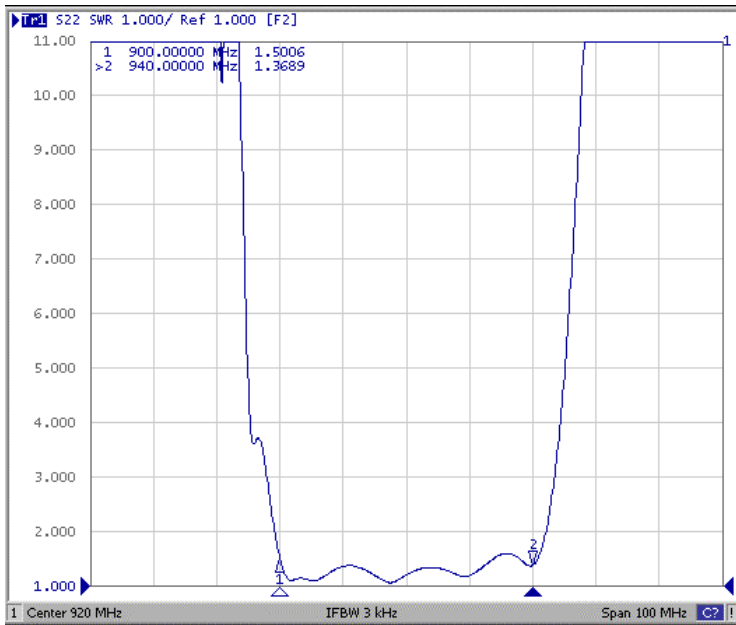
G. **PACKING:**

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

See DETAIL 'A'

ø100 REF.
ø330 REF.
12 TYP.

ø13.0+0.5/-0.2
ø20.2min
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
2Y
B   B
3.35±0.1   8.0±0.05
A
R0.5 (TYP.)
ø1.5±0.1
1.4±0.1
ø1.5±0.1
SECTION A-A
SECTION B-B
DIMENSION : mm
Direction of Feed
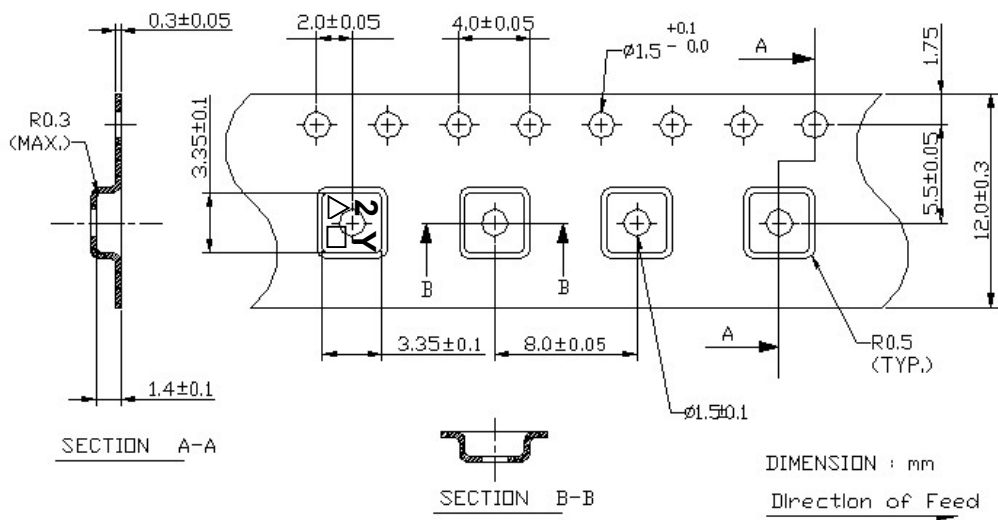
H. RECOMMENDED REFLOW PROFILE :