



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: August, 31, 2005

Product Name: SAW Filter 2140 MHz SMD 3X3 mm

TST Parts No.:TA0174G

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau

Approval by:_____ Francis Chen

Date:_____ 8, 31, 2005



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SAW Filter 2140 MHz for Mobile Communication

MODEL NO.: TA0174G

REV. NO.:2

A1. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 3 V
3. Operating Temperature: 25°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B1. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	F_c (MHz)	-	2140	-
Insertion loss (2110~2170 MHz)	IL (dB)	-	2.1	3.5
Amplitude ripple (2110~2170 MHz)	(dB)	-	0.6	2.0
Attenuation (Reference level from 0 dB)				
D.C. ~ 500	MHz (dB)	21	33	-
500 ~ 1900	MHz (dB)	20	28	-
1900 ~ 2050	MHz (dB)	25	30	-
2215 ~ 2300	MHz (dB)	20	32	-
2300 ~ 4500	MHz (dB)	25	32	-
Input/Output VSWR (2110~2170 MHz)		-	1.7	1.95
Source impedance	Z_s (Ω)	-	50	-
Load impedance	Z_L (Ω)	-	50	-

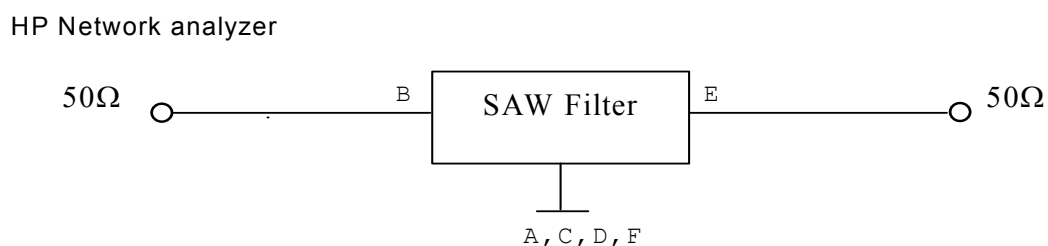
A2. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +85°C

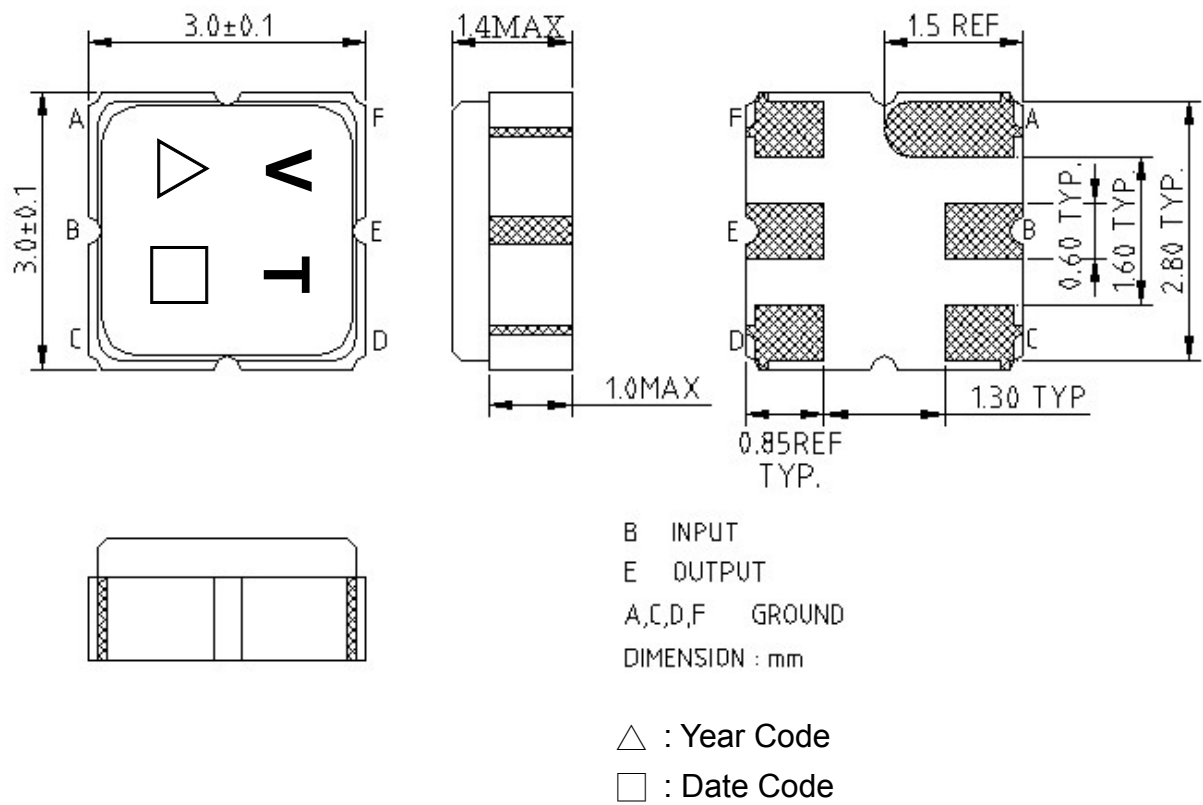
B2. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency	Fc	(MHz)	-	2140	-
Insertion loss (2110~2170 MHz)	IL	(dB)	-	2.1	3.5
Amplitude ripple (2110~2170 MHz)		(dB)	-	0.6	2.0
Attenuation (Reference level from 0 dB)					
D.C. ~ 500	MHz	(dB)	21	33	-
500 ~ 1900	MHz	(dB)	20	28	-
1900 ~ 2050	MHz	(dB)	25	30	-
2215 ~ 2300	MHz	(dB)	20	32	-
2300 ~ 4500	MHz	(dB)	25	32	-
Input/Output VSWR (2110~2170 MHz)			-	1.9	2.15
Source impedance	Zs	(Ω)	-	50	-
Load impedance	ZL	(Ω)	-	50	-

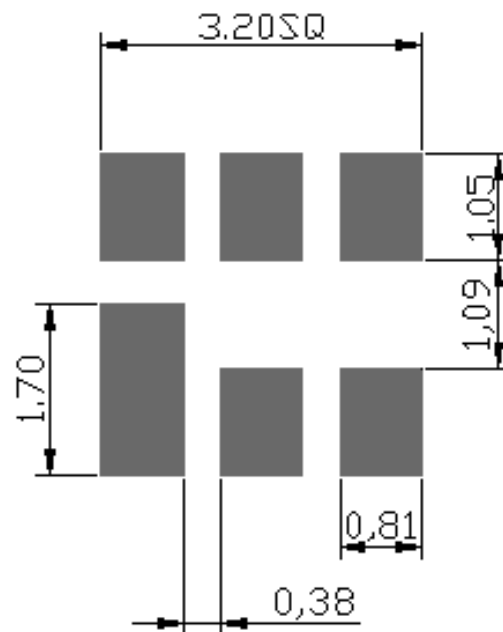
C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:

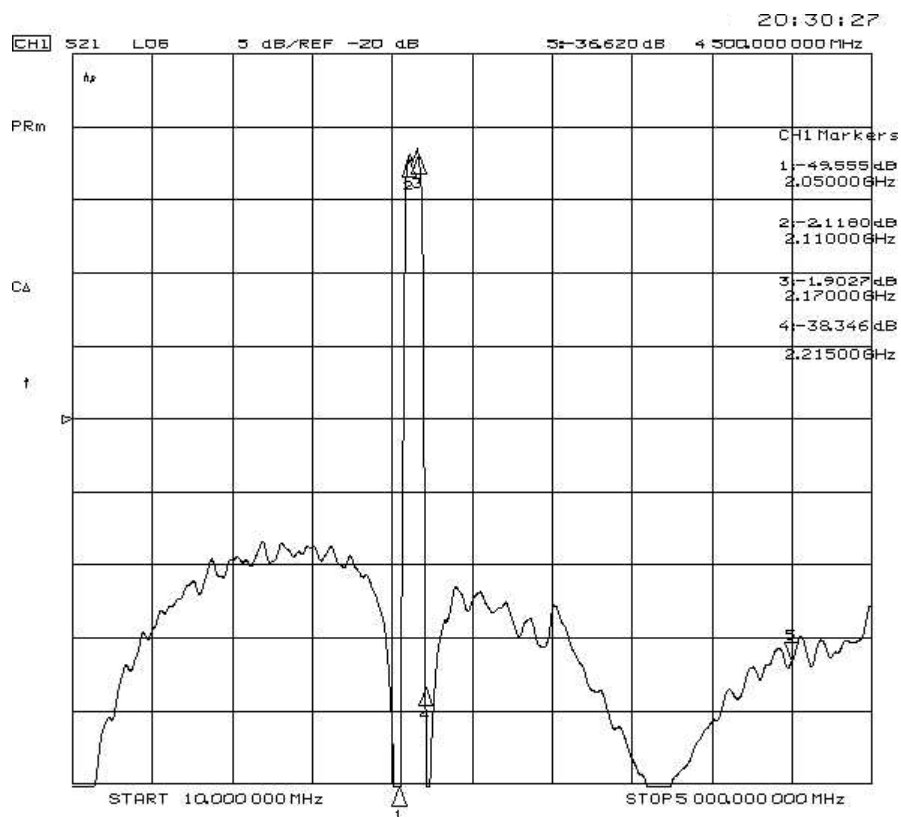
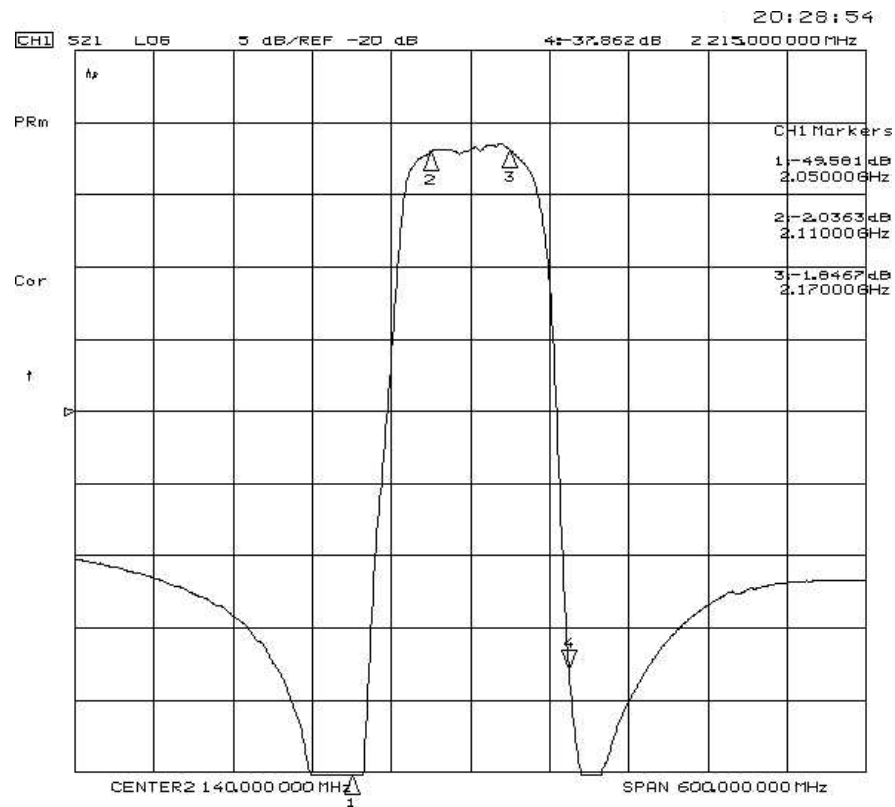


E. PCB Footprint:



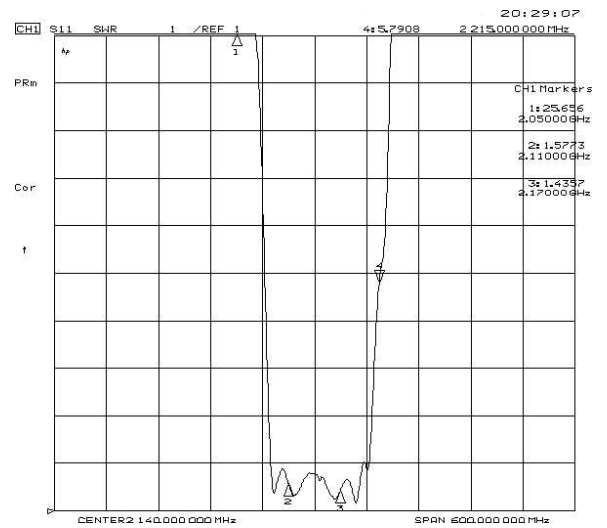
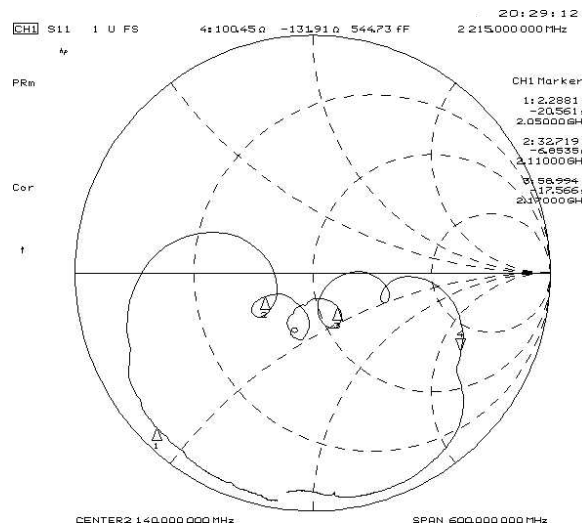
F. Frequency Characteristics :

Transfer function

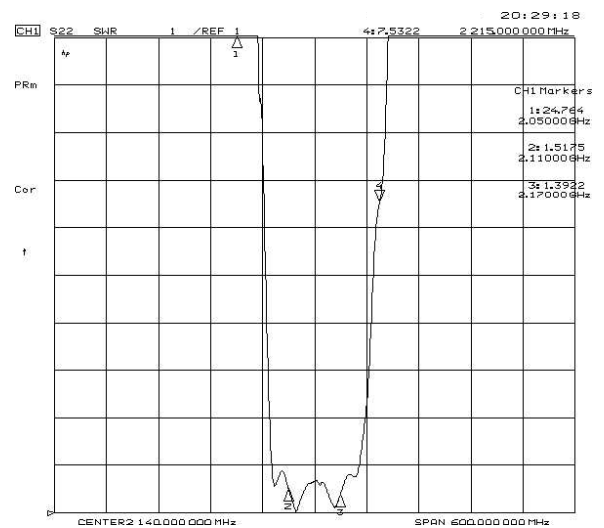
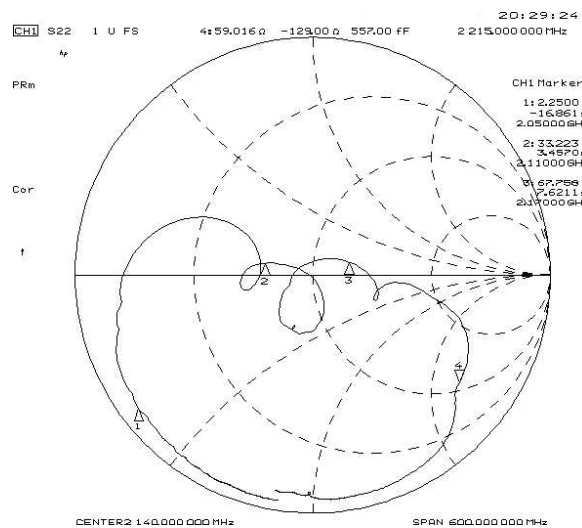


Reflections Functions :

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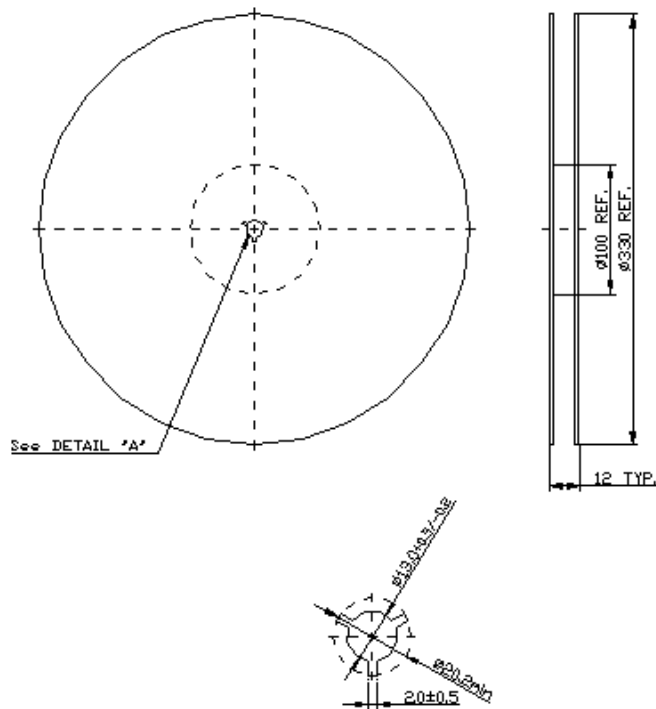


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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

