



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 2140 MHz SMD 3.0SQ for W-CDMA

TST Parts No.: TA0174A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Anne Chen 

Approval by: Francis Chen 

Date: Sep. 5. 2008



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SAW Filter 2140 MHz for Mobile Communication

MODEL NO.: TA0174A

REV. NO.:3

A. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

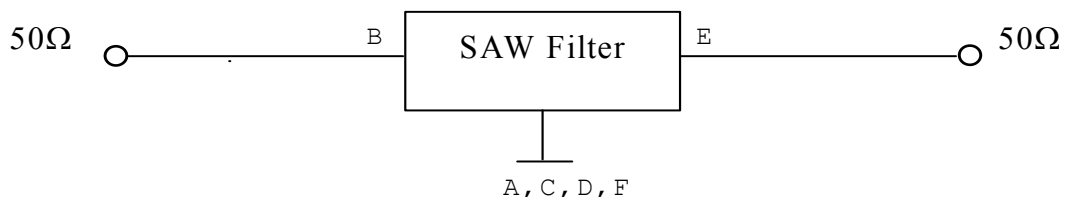
B. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.
Center frequency F_c (dB)	-	2140	-
Insertion loss within 2110 ~2170 MHz IL (dB)	-	2.1	3.5
Amplitude ripple (p-p) within 2110 ~ 2170 MHz (dB)	-	0.6	2.0
Attenuation (Reference level from 0 dB)			
D.C. ~ 500 MHz (dB)	21.0	33.0	-
500 ~ 1900 MHz (dB)	20.0	28.0	-
1900 ~ 2050 MHz (dB)	25.0	30.0	-
2215 ~ 2300 MHz (dB)	20.0	32.0	-
2300 ~ 4500 MHz (dB)	25.0	32.0	-
VSWR within 2110 ~2170 MHz	-	1.9	2.2
Source impedance Z_s (Ω)	-	50	-
Load impedance Z_L (Ω)	-	50	-

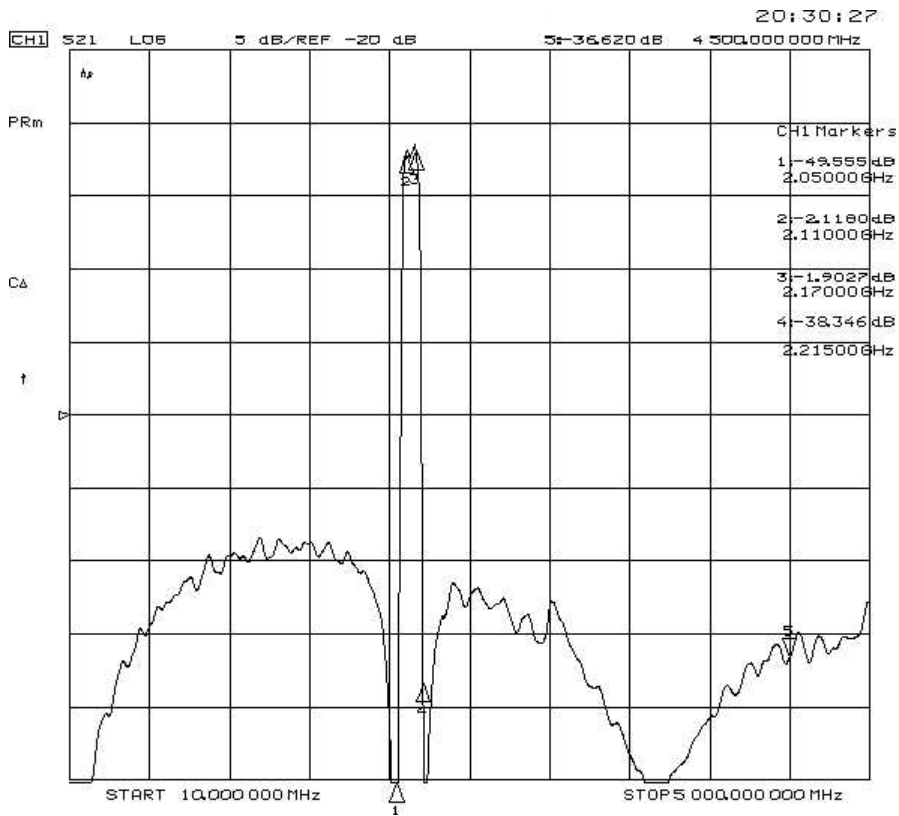
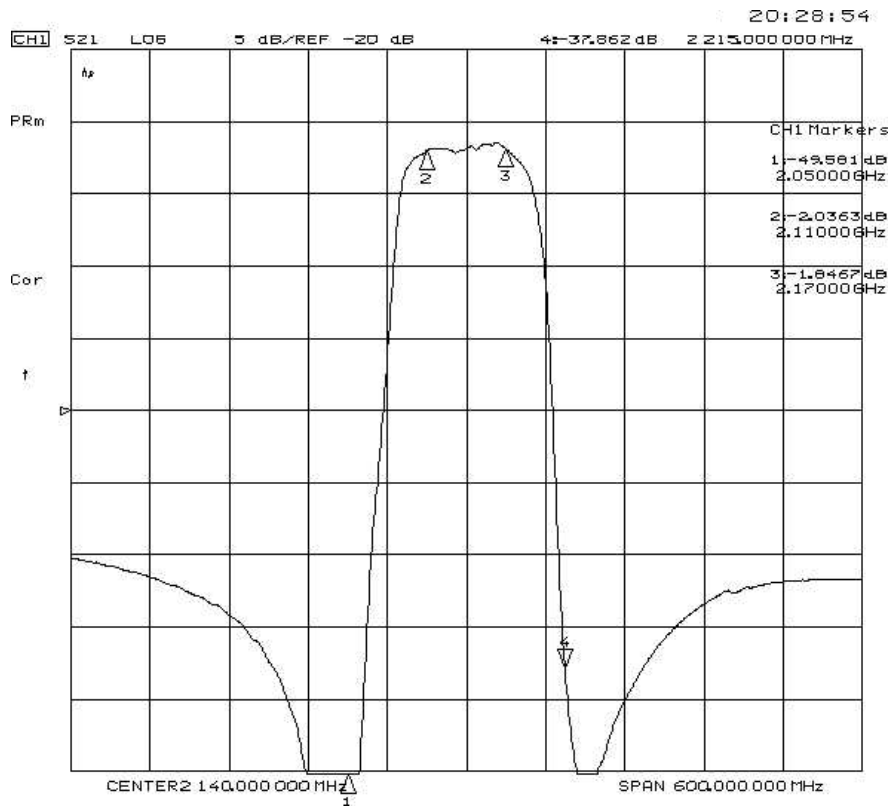
Note1. No matching network required for operation at 50 Ω

MEASUREMENT CIRCUIT:

HP Network analyzer

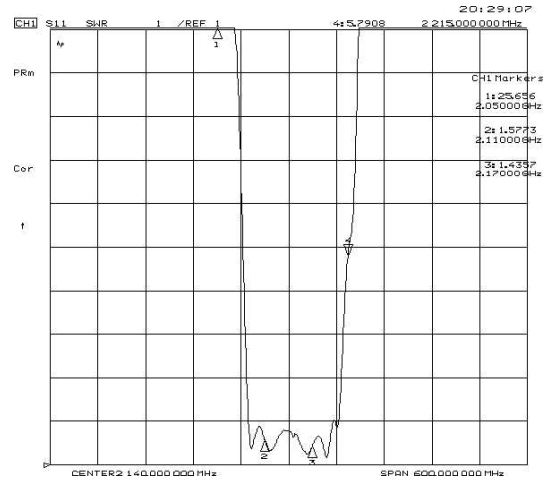
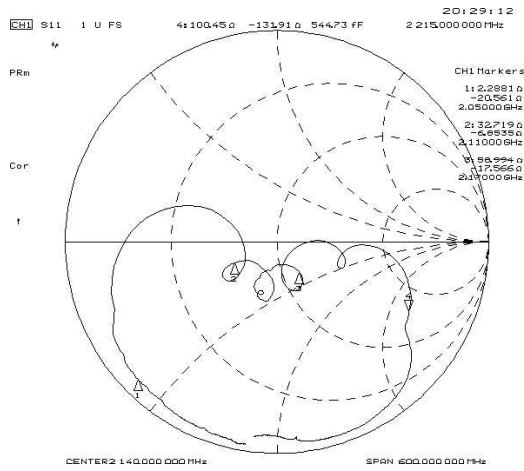


C. Frequency Characteristics : Transfer function

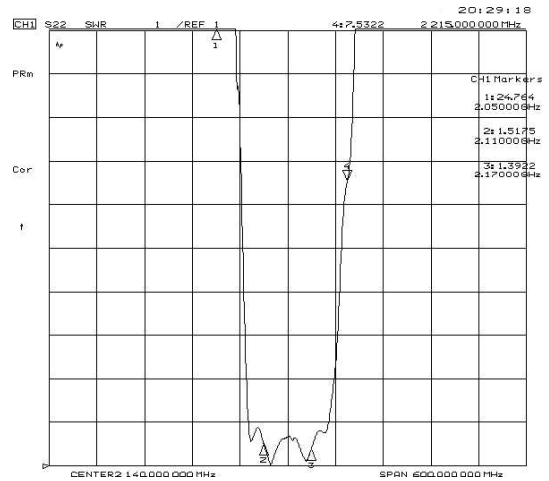
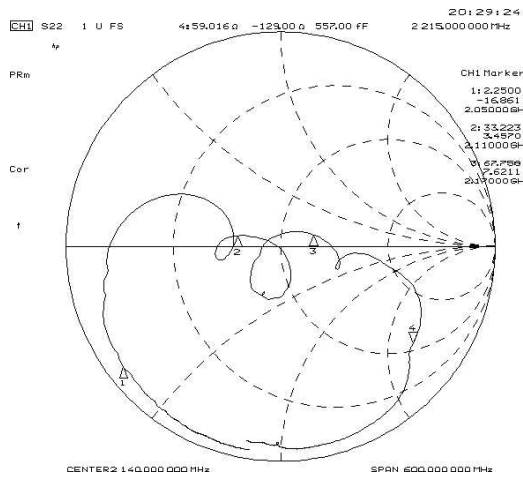


D.Reflections Functions :

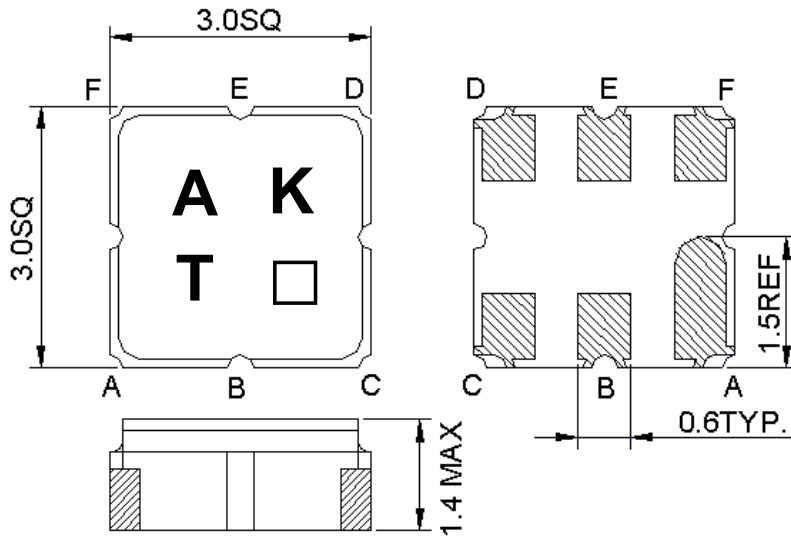
S11 VSWR



S22 VSWR

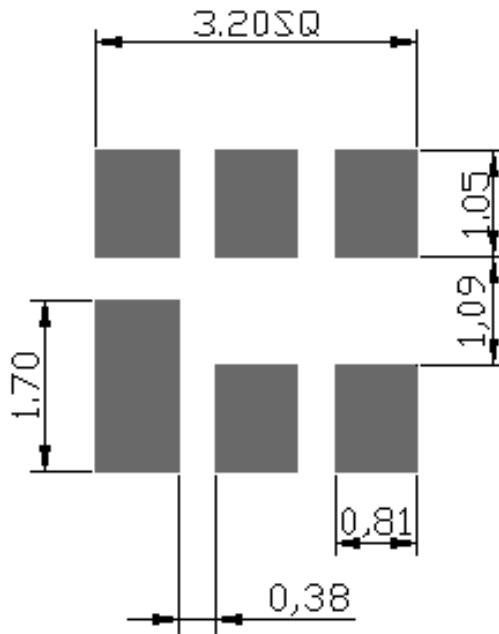


E.OUTLINE DRAWING: 雷射



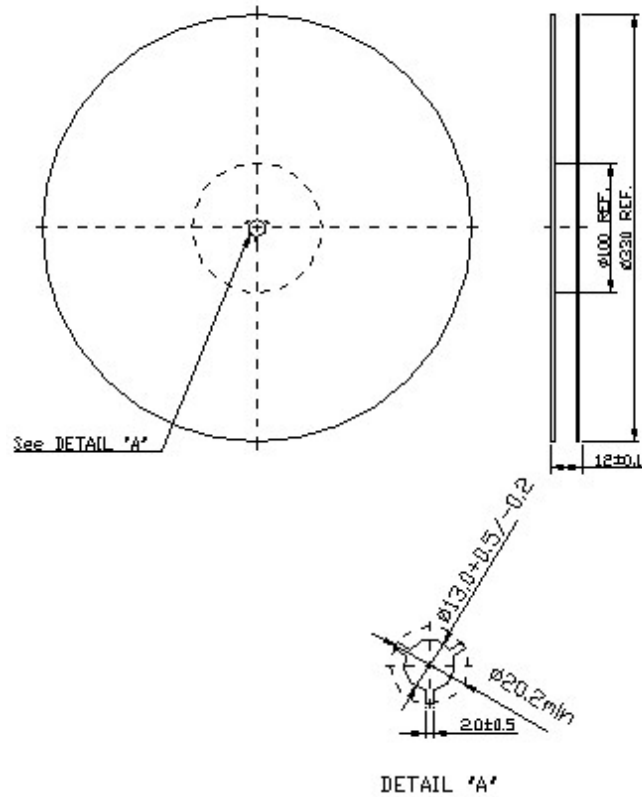
- Pin B : Input
- Pin E : Output
- Pin A,C,D,F : Ground
- : week code (Follow the table from planner each year)
- Unit : mm

F. PCB Footprint:

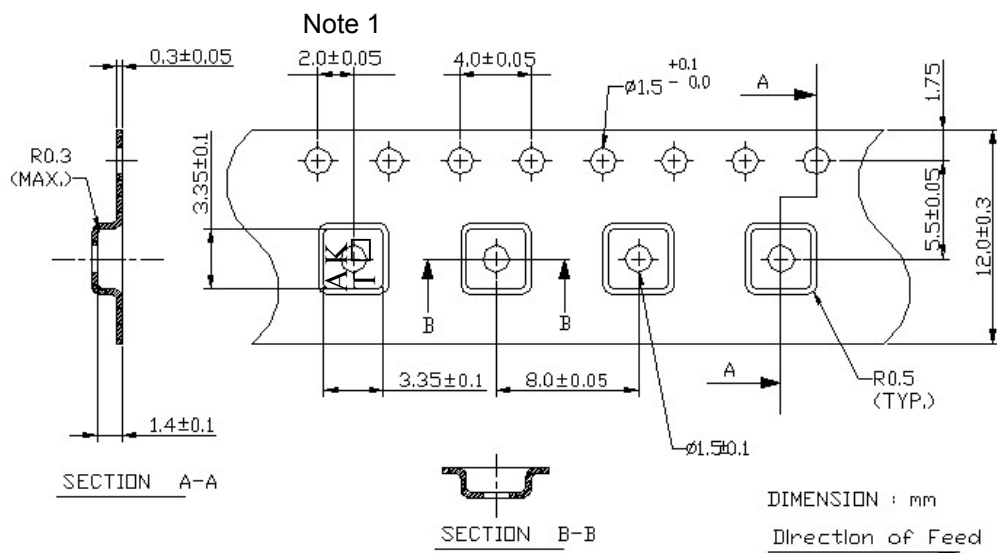


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Note :

1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.