



TAI-SAW TECHNOLOGY CO., LTD.

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

Issued Date: Oct, 30, 2000

Product Name: SAW Filter 1575.42 MHz SMD 3.8X3.8 mm for GPS

TST Parts No.: TA0176A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 10,30,2000



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SAW Filter 1575.42 MHz for GPS ~ Low Loss ~

MODEL NO.: TA0176A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +100°C

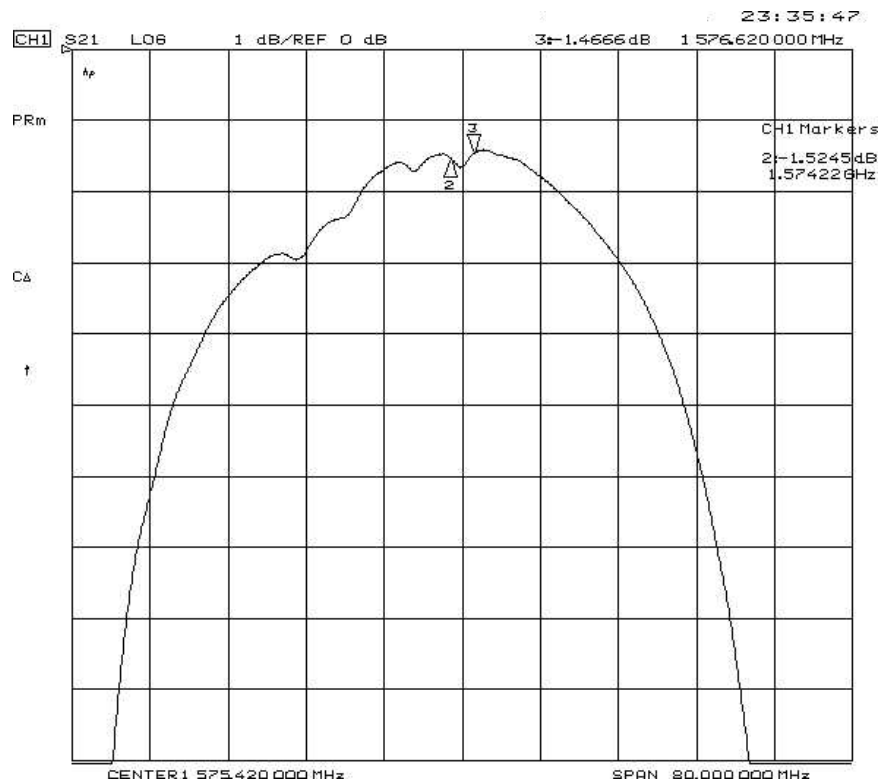
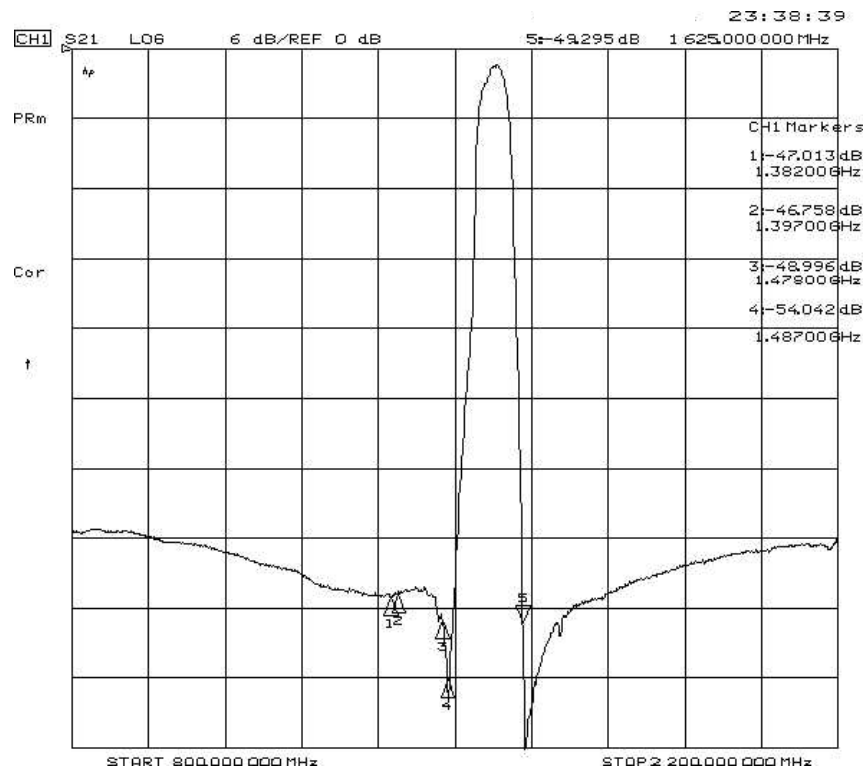
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	F_c (dB)	-	1575.42	-
Insertion loss	1574.22 ~ 1576.62 MHz IL (dB)	-	1.5	2.2
Amplitude ripple (p-p)	1574.22 ~ 1576.62 MHz (dB)	-	0.15	1.0
Attenuation (Reference level from 0 dB)				
DC ~ 1382	MHz (dB)	37	40	-
1382 ~ 1397	MHz (IF Image frequency) (dB)	40	47	-
1397 ~ 1478	MHz (dB)	40	45	-
1478 ~ 1487	MHz (Local frequency) (dB)	40	47	-
1487 ~ 1500	MHz (dB)	30	52	-
1625 ~ 1640	MHz (dB)	30	49	-
1640 ~ 2000	MHz (dB)	38	42	-
2000 ~ 2800	MHz (dB)	33	41	-
2800 ~ 3000	MHz (dB)	30	34	-
VSWR within 1574.22 ~ 1576.62 MHz		-	1.1	2.0
Source impedance	Z_s (Ω)	-	50	-
Load impedance	Z_L (Ω)	-	50	-

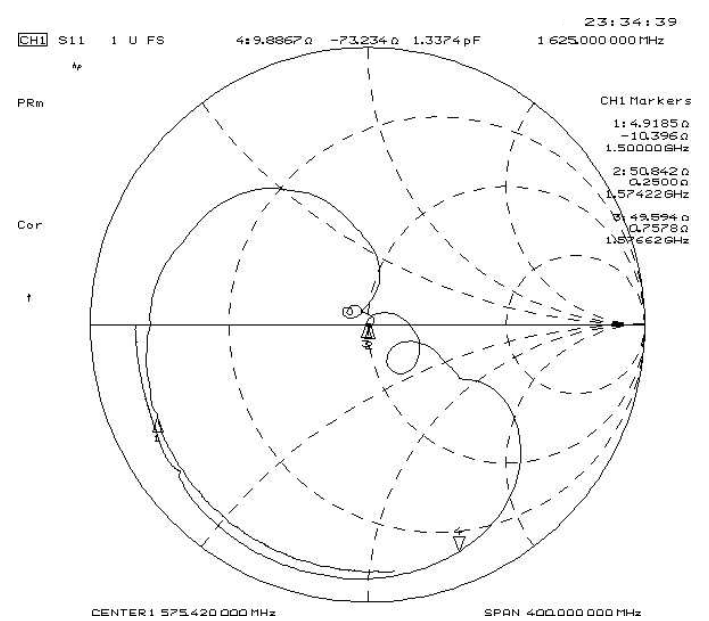
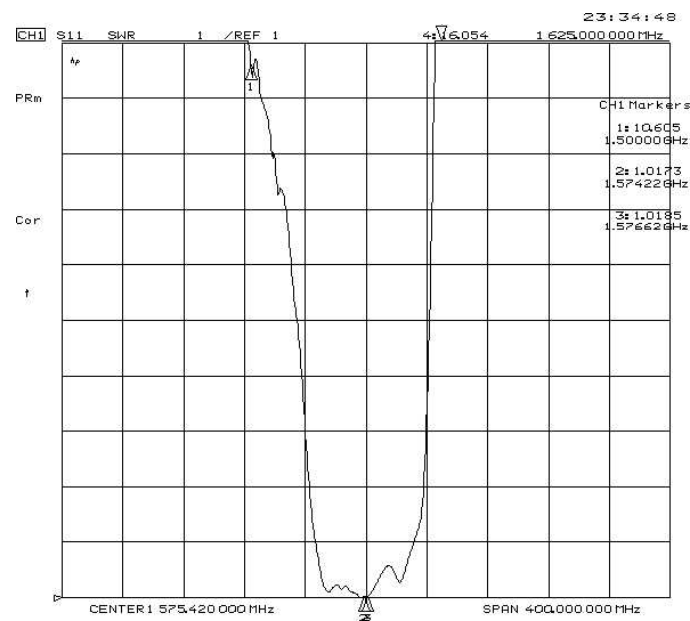
Note1. No matching network required for operation at 50 Ω

C. Frequency Characteristics :

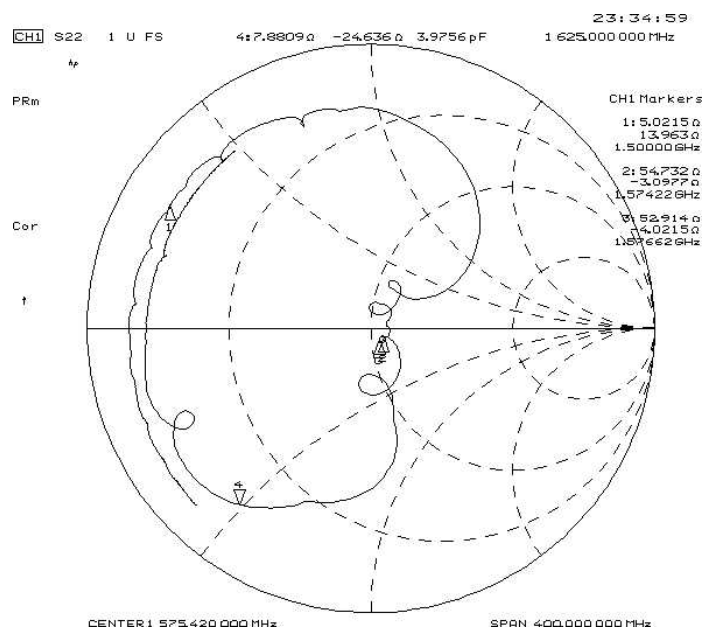
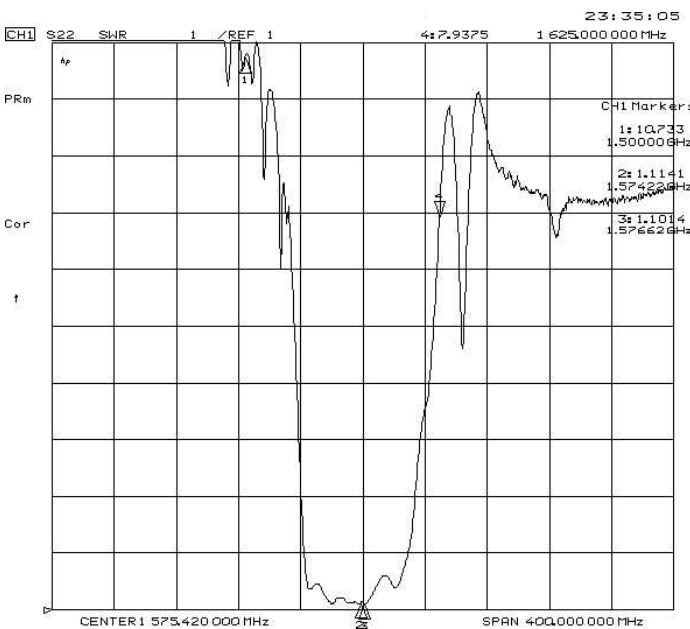


D. Reflections Functions :

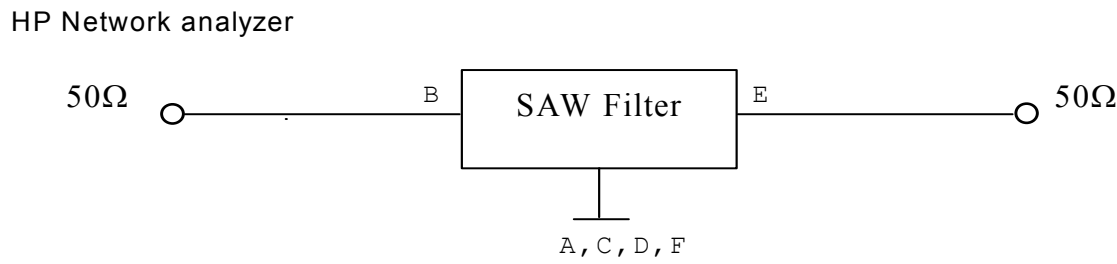
S11 VSWR



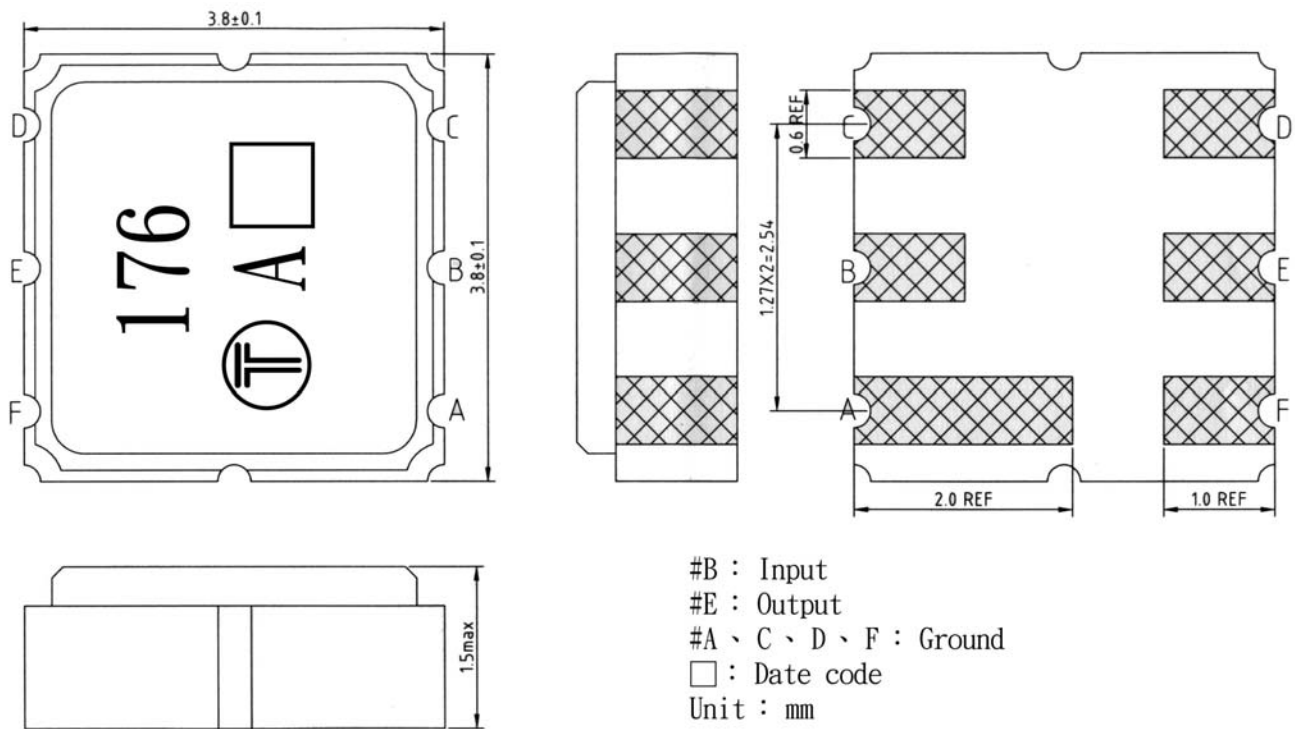
S22 VSWR



E. MEASUREMENT CIRCUIT:

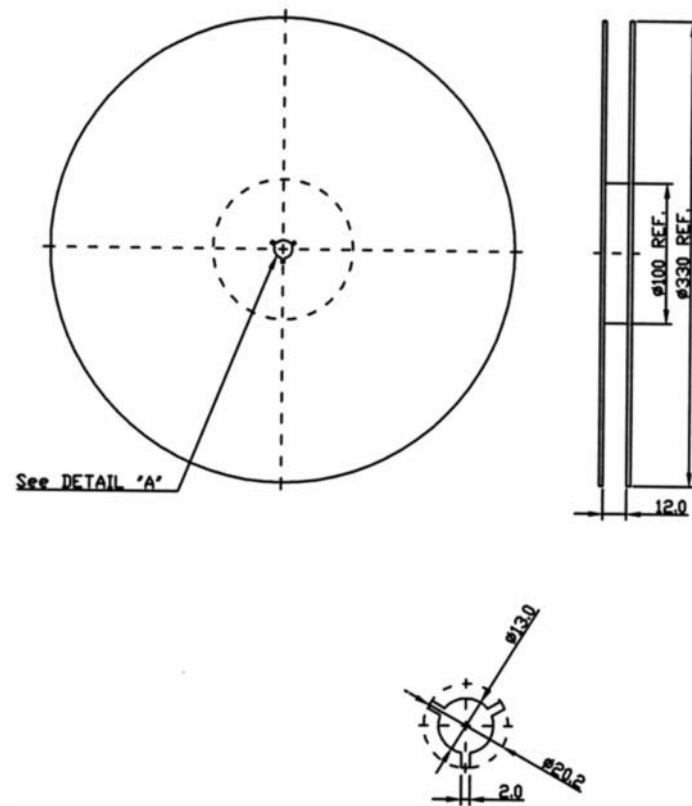


F. OUTLINE DRAWING:



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

