



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 1030MHz 30MHz BW SMD 3.8x3.8 mm

TST Parts No.:TA0177A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen 

Approval by:_____ Francis Chen 

Date:_____ 2012/04/02

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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SAW Filter 1030 MHz 30 MHz BW SMD 3.8×3.8 mm

MODEL NO.: TA0177A

REV. NO.:6

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -45°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

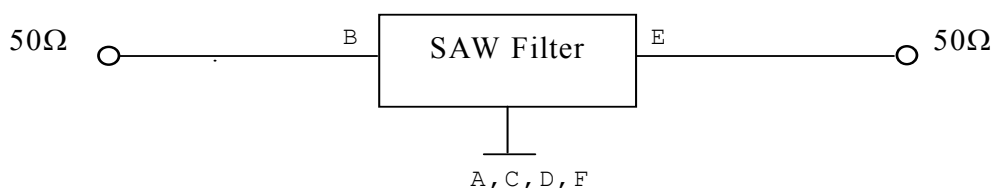
B. ELECTRICAL CHARACTERISTICS:

Characteristics (at 25°C)	Min.	Typ.	Max.
Center frequency F_c (dB)	-	1030	-
Insertion loss within 1015 ~1045 MHz IL (dB)	-	2.3	3.0
Amplitude ripple (p-p) within 1025 ~ 1035 MHz (dB)	-	0.25	1.0
Attenuation (Reference level from 0 dB)			
DC ~ 910 MHz (dB)	25.0	29.5	-
1090 ~ 1300 MHz (dB)	25.0	32.5	-
VSWR within 1015 ~1045 MHz	-	1.8	2.1
Source impedance Z_s (Ω)	-	50	-
Load impedance Z_L (Ω)	-	50	-

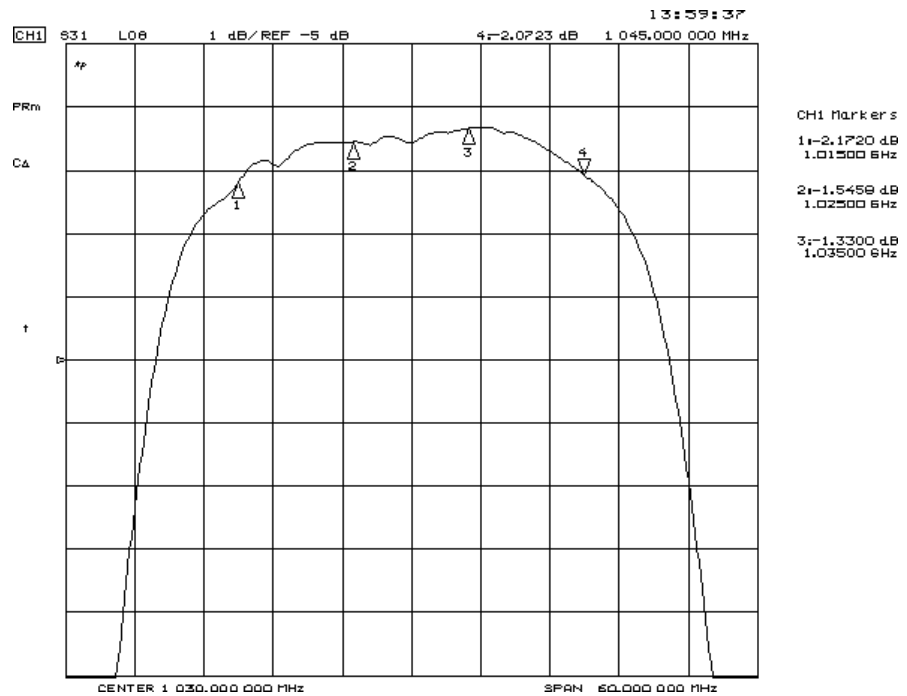
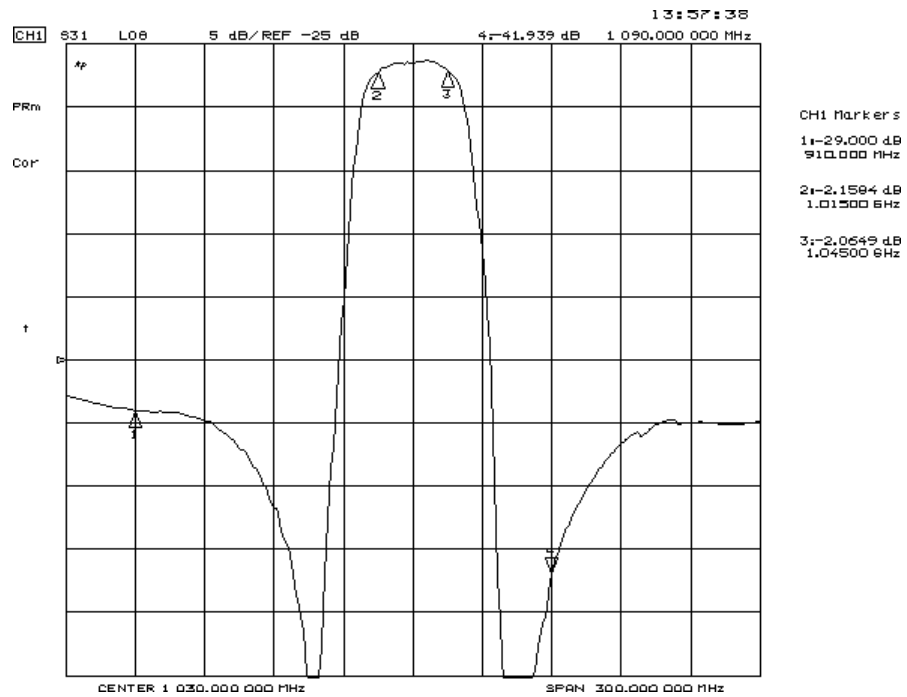
Note1. No matching network required for operation at 50 Ω

C. MEASUREMENT CIRCUIT:

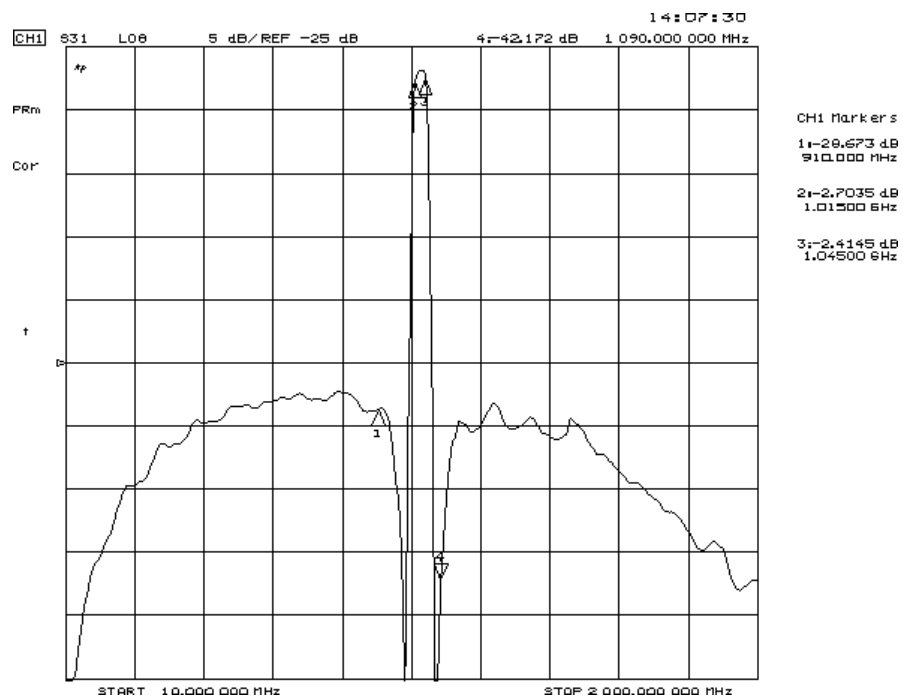
HP Network analyzer



D. Frequency Characteristics :

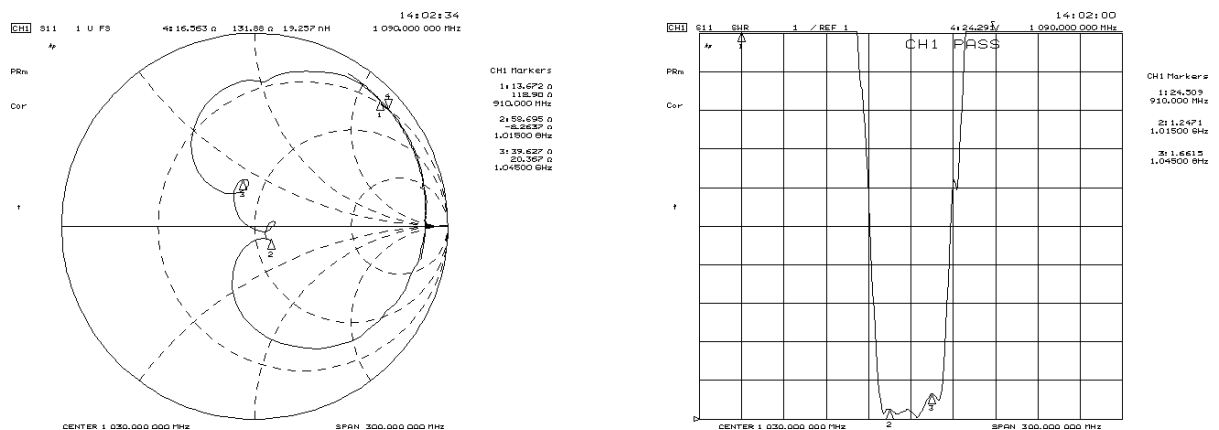


(wideband)

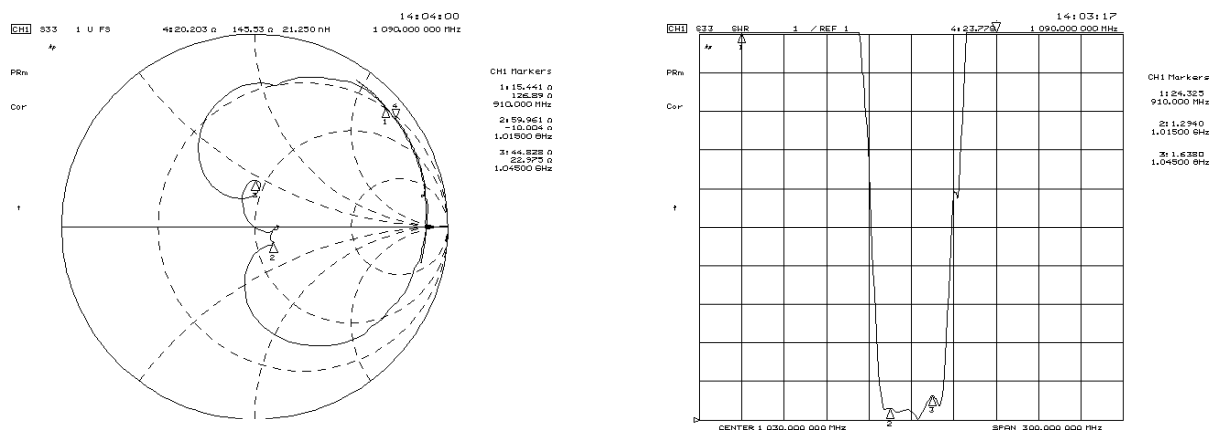


E.Reflections Functions :

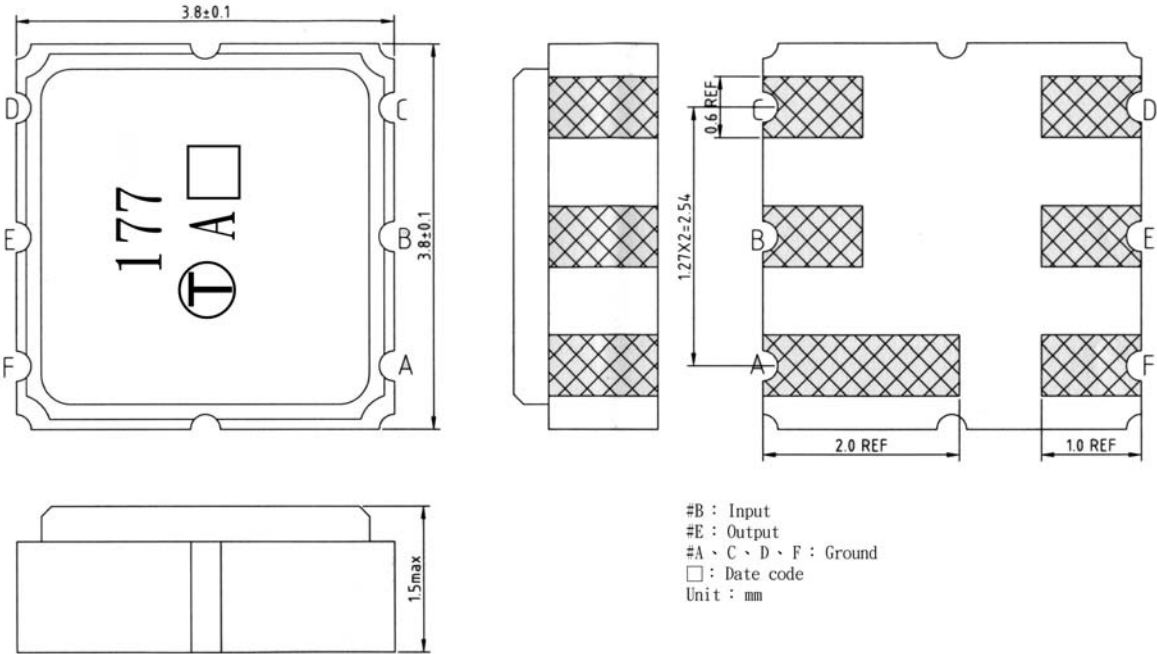
S11:



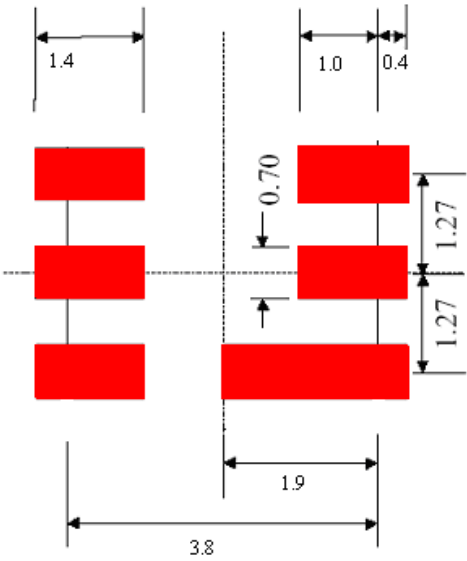
S22:



F.OUTLINE DRAWING:

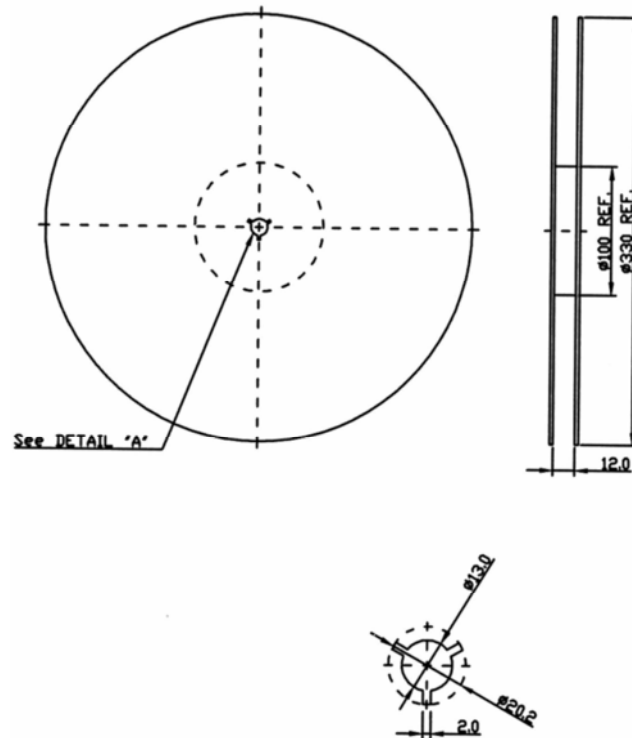


G. PCB Footprint:

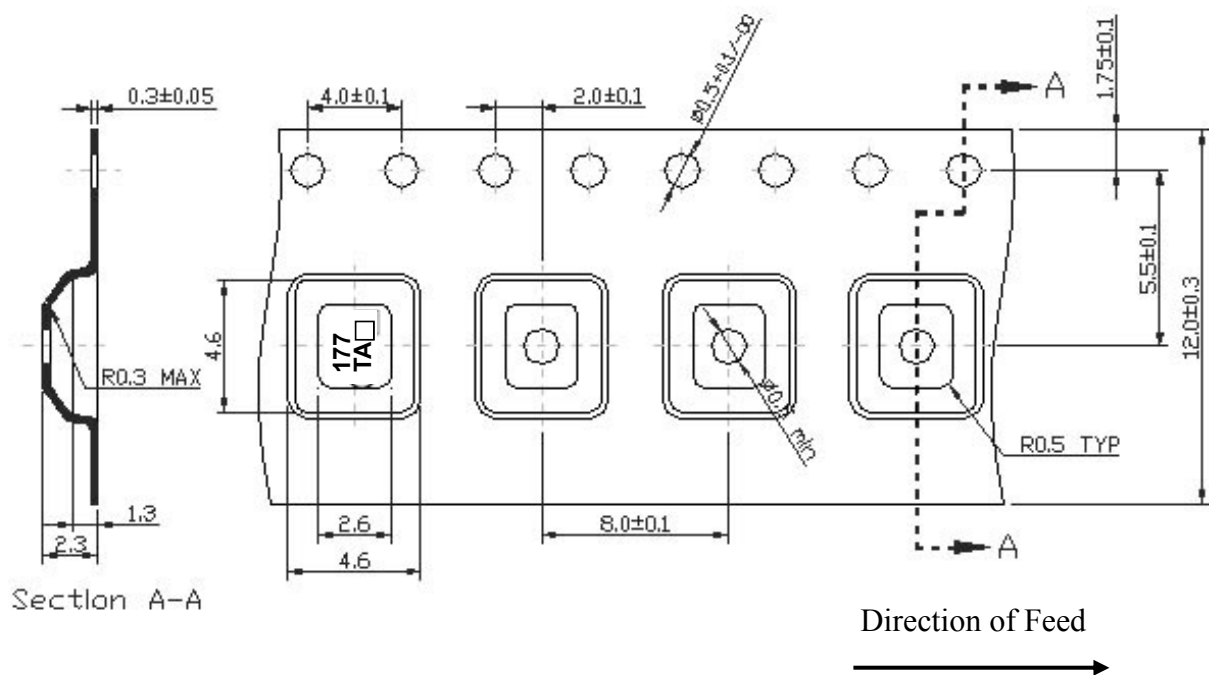


H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

