



TAI-SAW TECHNOLOGY CO., LTD.

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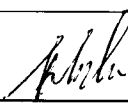
Product Specifications Approval Sheet

Product Description: SAW Filter 119.64 MHz SMD 7.0X5.0 mm

TST Part No.: TB0777A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 6, 28, 2012

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 119.64MHz

MODEL NO.: TB0777A

REV. NO.:3

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

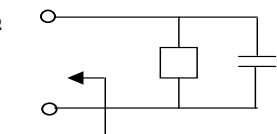
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center frequency, F_c	MHz	-	119.64	-	-
Minimum Insertion Loss, IL	dB	-	4	5.5	-
3 dB bandwidth (from F_c)	KHz	5	55	-	-
Group delay ripple in F_c±2.5KHz , GD	μs	-	5	10	-
Attenuation:(Reference level from min IL)					
F_c - 2.5 to F_c + 2.5 KHz	dB	-	1.2	3.0	-
F_c ± 80 to F_c ± 120 KHz	dB	13	23	-	-
F_c ± 120 to F_c ± 240 KHz	dB	43	50	-	-
F_c ± 240 to F_c ± 330 KHz	dB	45	55	-	-
F_c ± 330 to F_c ± 480 KHz	dB	45	55	-	-
F_c ± 480 to F_c ± 660 KHz	dB	45	55	-	-
Temperature coefficient of frequency TCf		-0.033 ppm/C²			

Source impedance

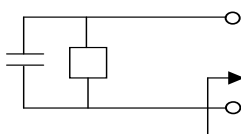
50Ω



$Z_{IN}=416.2\Omega \parallel -4.65pF$

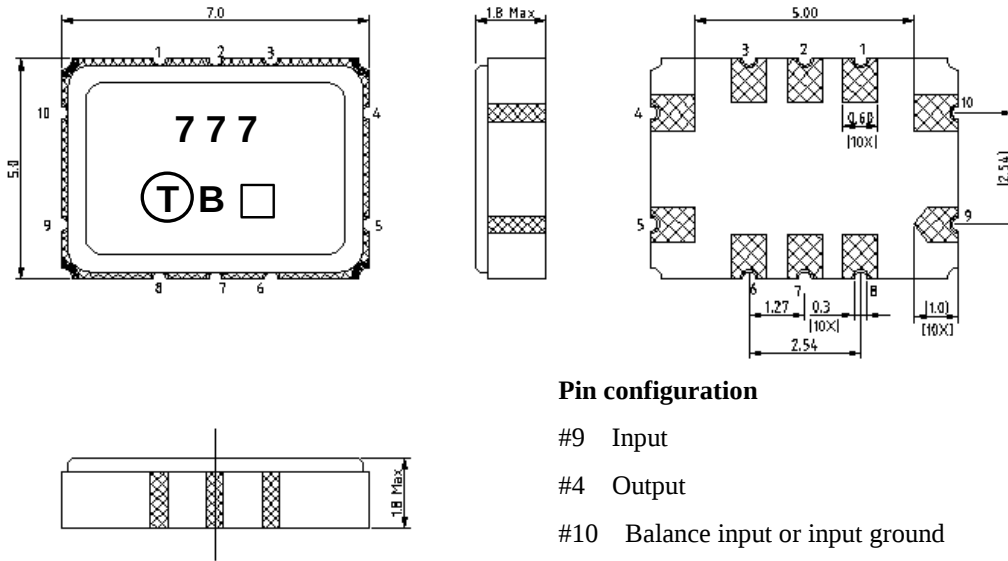
Load impedance

50Ω



$Z_{OUT}=416.2\Omega \parallel -4.65pF$

C. OUTLINE DRAWING:

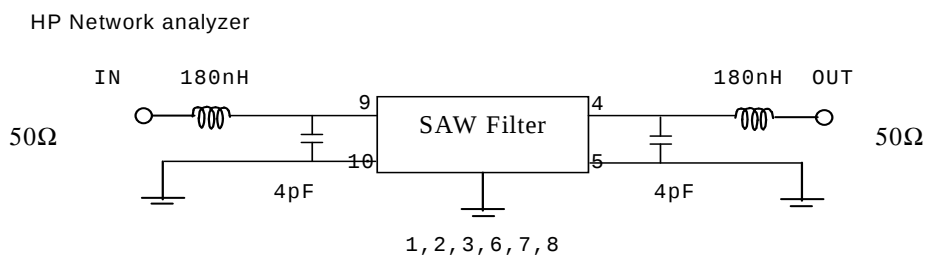


Pin configuration

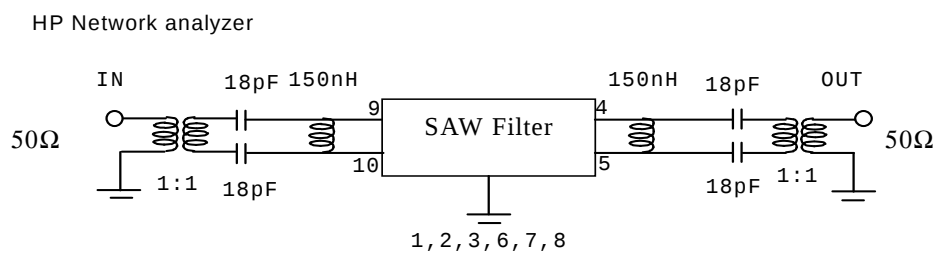
- #9 Input
- #4 Output
- #10 Balance input or input ground
- #5 Balance output or output ground
- #1,2,3,6,7,8 To be grounded
- Date code
- Unit mm

D. MEASUREMENT CIRCUIT:

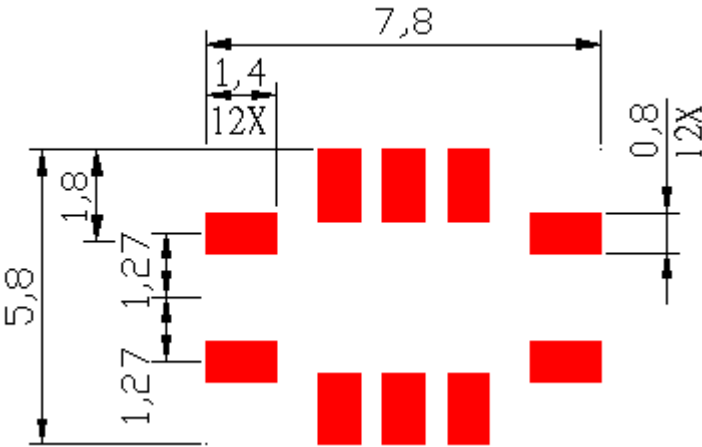
50 Ohm Test circuit 1 (single-ended / single-ended)



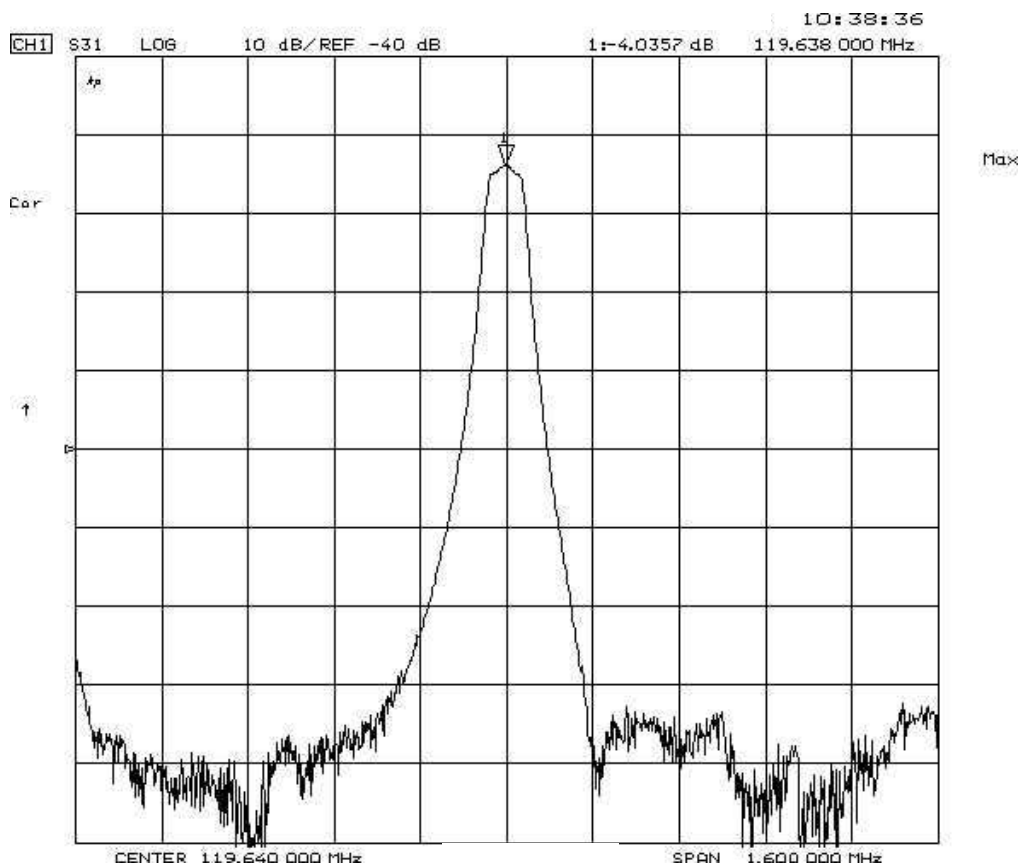
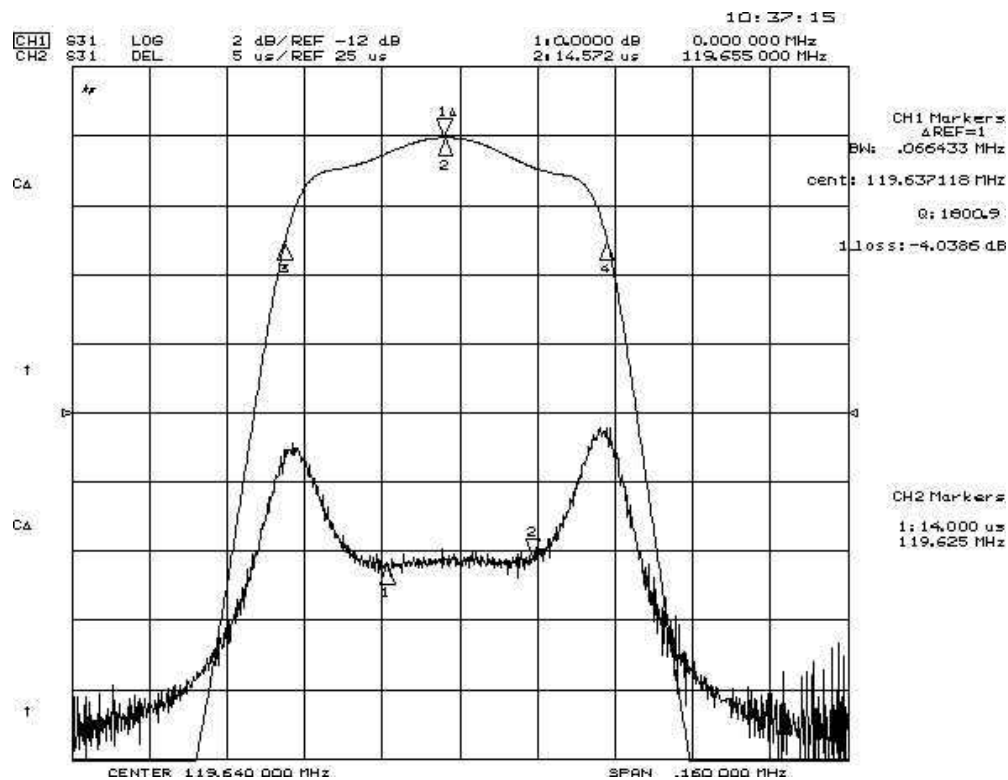
50 Ohm Test circuit 2 (balance / balance)



E. PCB Footprint:



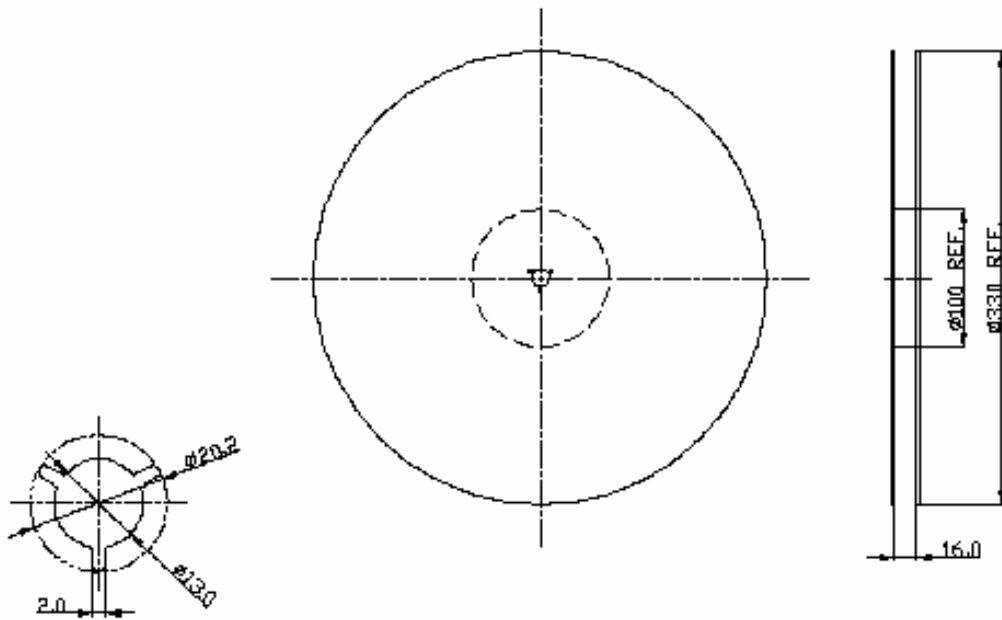
F. Frequency Characteristics :



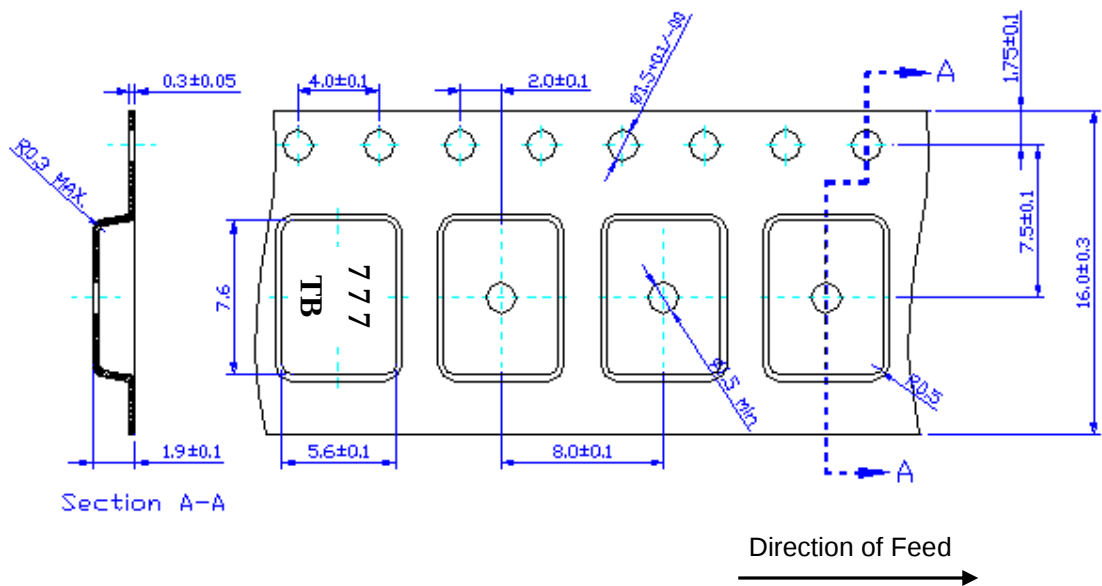
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=1000 or per the request of customer order)



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.

