TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

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

TST Part No.: TB0196A

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.: TB0196A REV. NO.:2

A. MAXIMUM RATING:

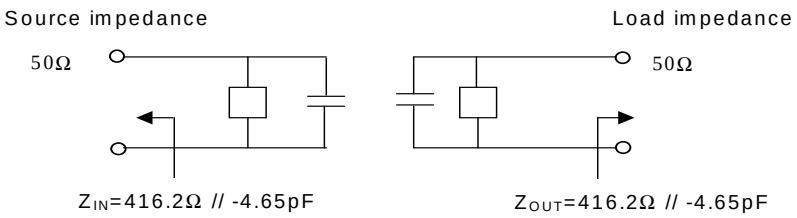
1. Input Power Level: 10 dBm
2. DC voltage : 13 V
3. Operating Temperature: -20℃ to +75℃
4. Storage Temperature: -40℃ to +85℃

RoHS Compliant
Lead free
Lead-free soldering

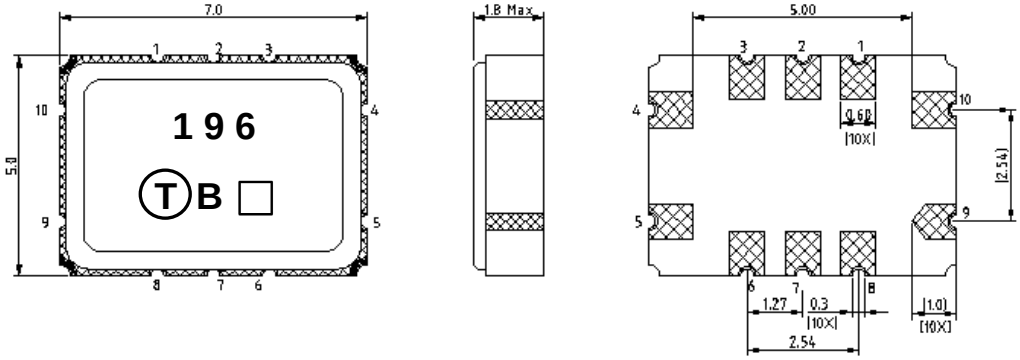
Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center frequency, **Fc**	MHz	-	119.64	-	-
Minimum Insertion Loss, **IL**	dB	-	4	5.5	-
3 dB bandwidth (from **Fc**)	KHz	±15	-	-	-
Group delay ripple in **Fc**±15KHz, **GD**	μs	-	5	10	-
Attenuation:(Reference level from min **IL**)					
Fc - 2.5 to **Fc** + 2.5 KHz	dB	-	1.2	3.0	-
Fc ± 80 to **Fc** ± 120 KHz	dB	13	23	-	-
Fc ± 120 to **Fc** ± 240 KHz	dB	43	50	-	-
Fc ± 240 to **Fc** ± 330 KHz	dB	45	55	-	-
Fc ± 330 to **Fc** ± 480 KHz	dB	45	55	-	-
Fc ± 480 to **Fc** ± 660 KHz	dB	45	55	-	-
Temperature coefficient of frequency	**TCf**	**-0.033 ppm/C^2**			



C. OUTLINE DRAWING:



Pin configuration

#9 Input

#4 Output

#10 Balance input or input ground

#5 Balance output or output ground

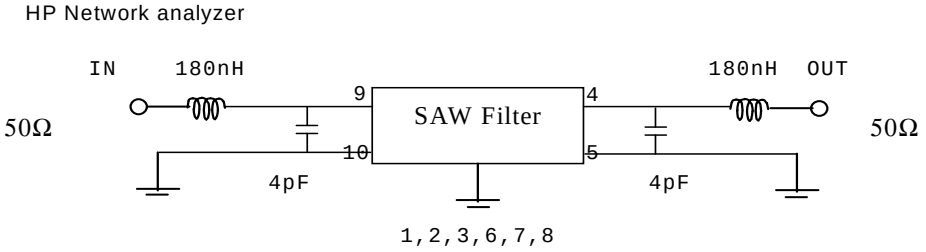
#1,2,3,6,7,8 To be grounded

□ Date code

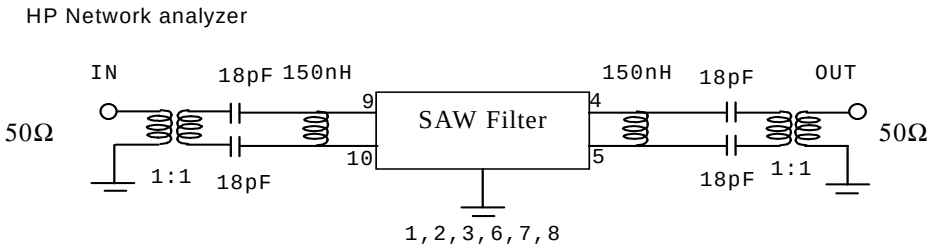
Unit mm

D. MEASUREMENT CIRCUIT:

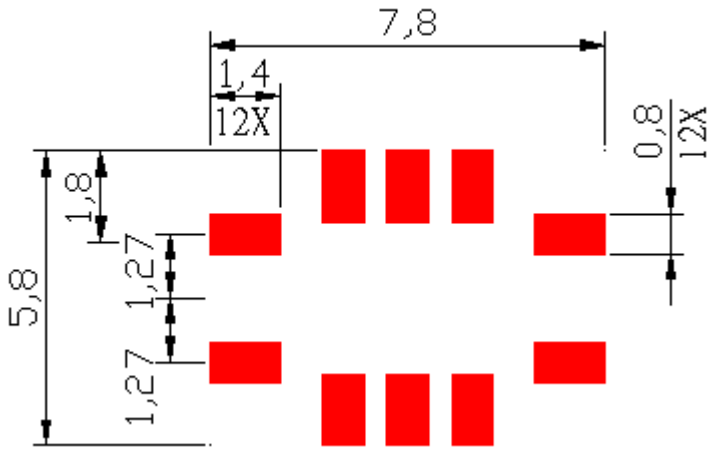
50 Ohm Test circuit 1 (single-ended / single-ended)



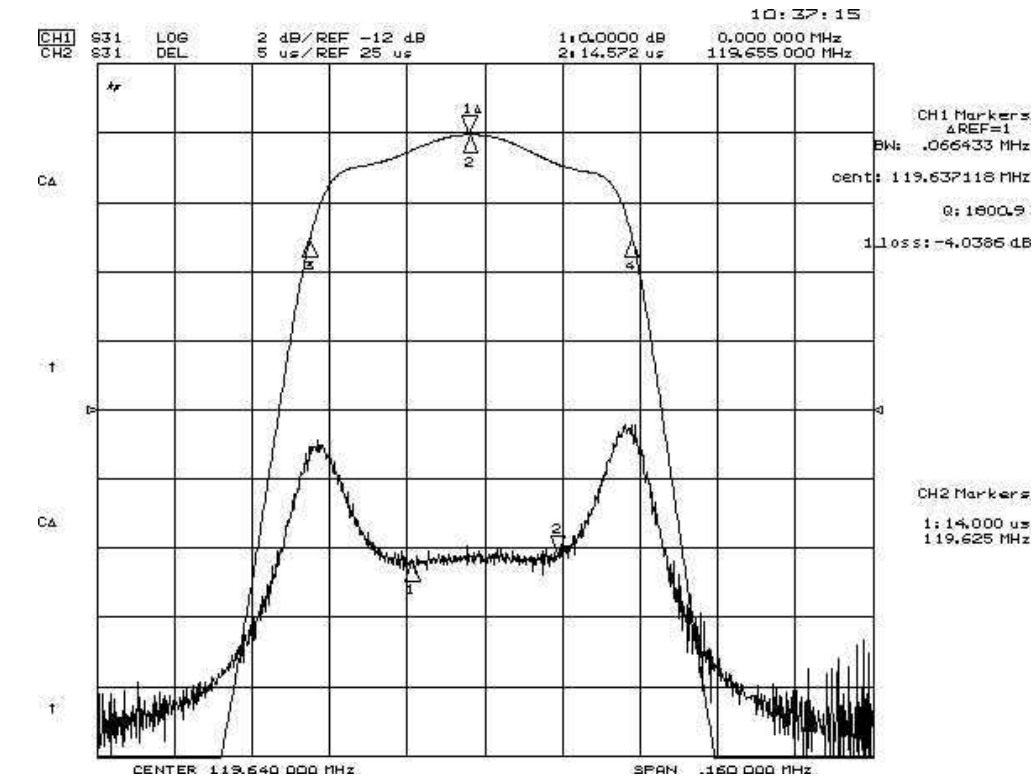
50 Ohm Test circuit 2 (balance / balance)

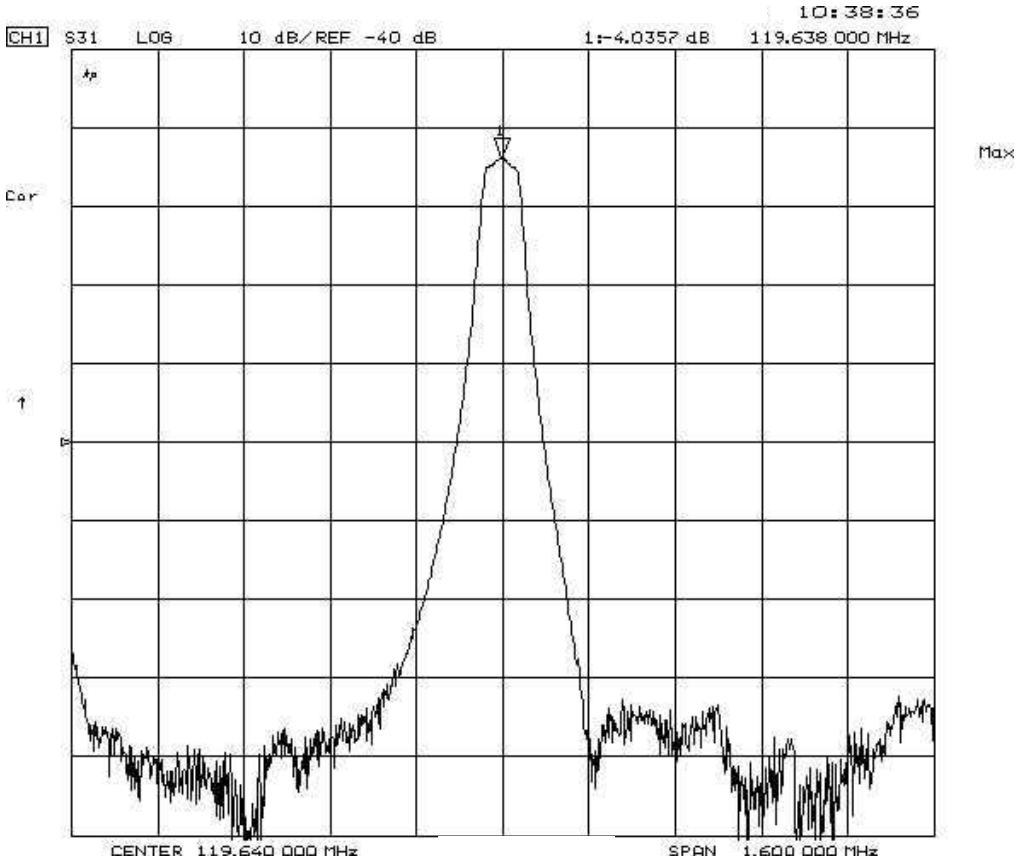


E. PCB Footprint:



F. Frequency Characteristics :

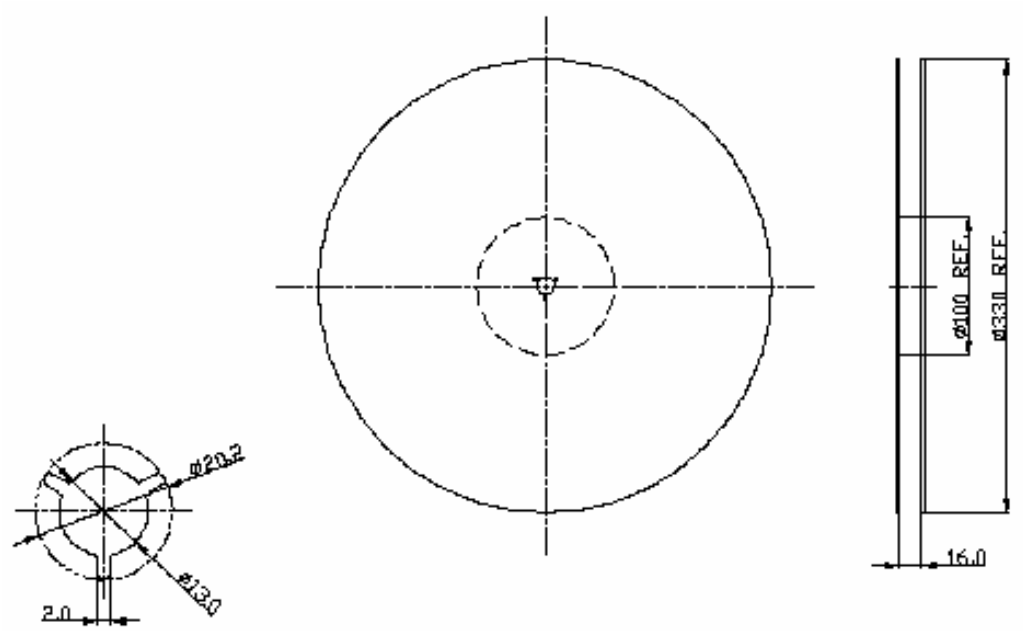




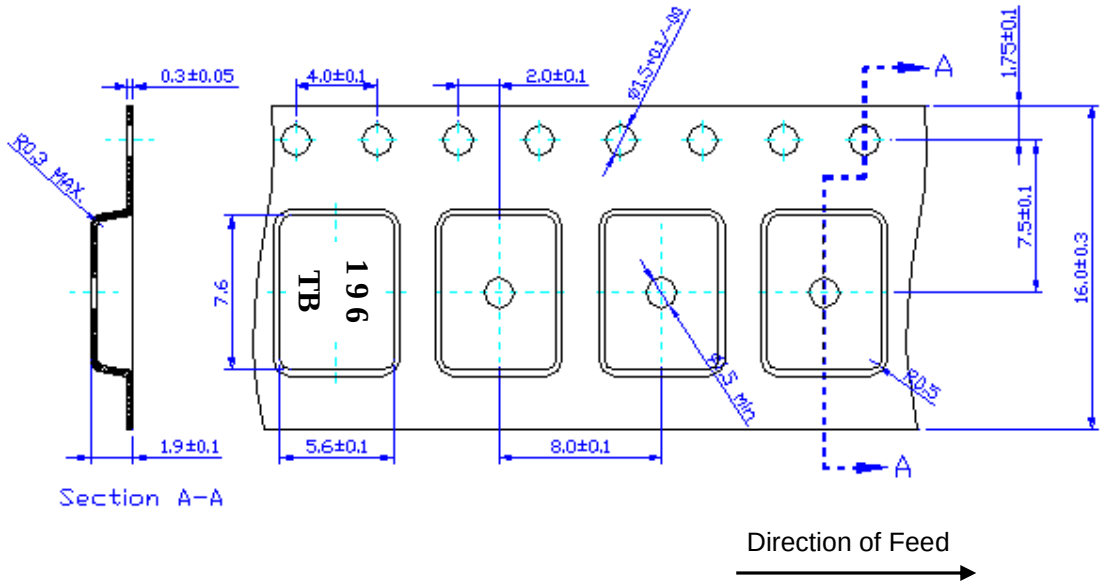
G. PACKING:

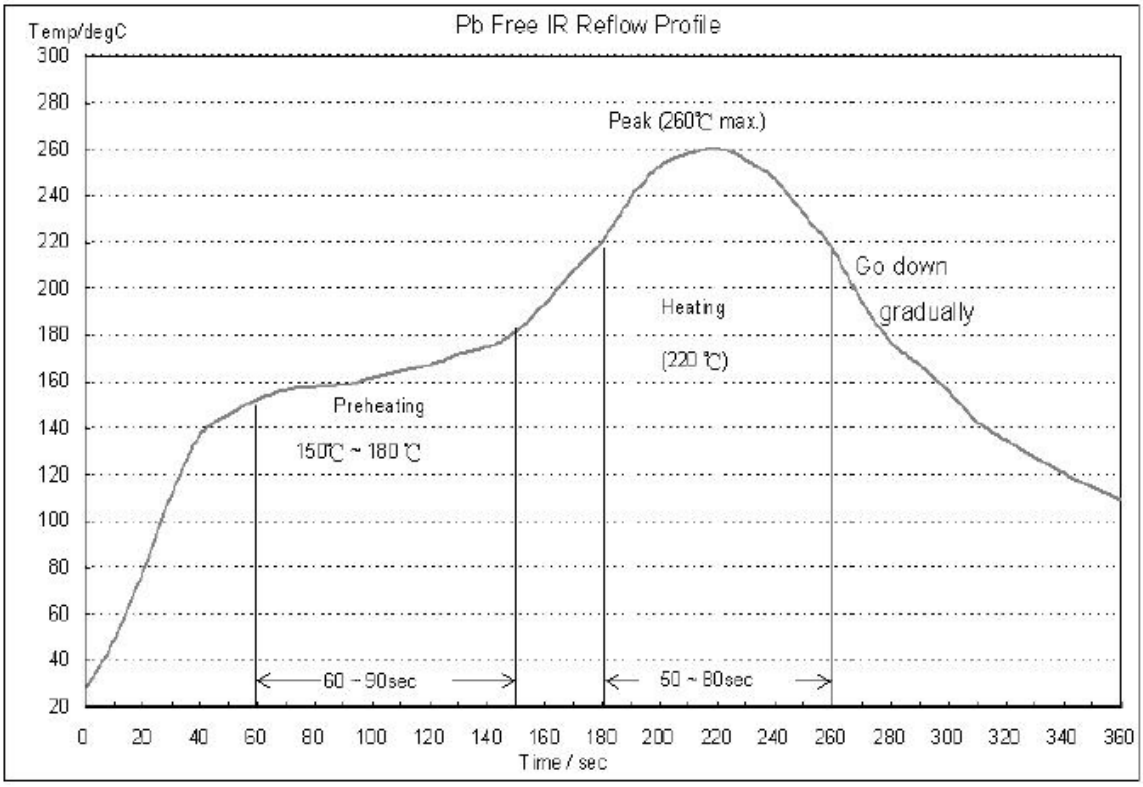
1. REEL DIMENSION

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