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

Approval Sheet For Product Specification

Product Name: SAW Filter 423.1MHz (BW 0.5MHz) SMD 5.0×7.0mm

TST Parts No.:TB1158A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Andy Yu_____

Approval by:_____Bob Chau_____

Date:_____2014/9/3_____

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 423.1 MHz(BW=0.5MHz) SMD 5.0mmX7.0mm

MODEL NO.: TB1158A REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -54 °C ~ +85 °C
3. Input power: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Ambient Temperature: 25 °C

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency F_C	MHz	-	423.1	-	-
Minimum Insertion loss I.L.	dB	-	6.8	9.5	-
1dB BW Lower Frequency	MHz	0.5	1.04	-	-
Passband Ripple (F_C ± 250KHz)	dB	-	0.3	1.0	-
Attenuation (Reference to Minimum Insertion loss)					
Fc+3~ Fc+200MHz	dB	35	45	-	-
Fc-3 ~ Fc-200MHz	dB	35	42	-	-
Temp Coefficient	ppm/℃	-	-0.032	-	-
Matching: 1.The input of the filter will be matched to 50 ohm 2.The output of the filter will be matched to 50 ohm					

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 20MHz)

Fig1. Horizontal: 2MHz/Div Vertical: 10dB/Div

2. Pass-band Ripple: (span : 10MHz)

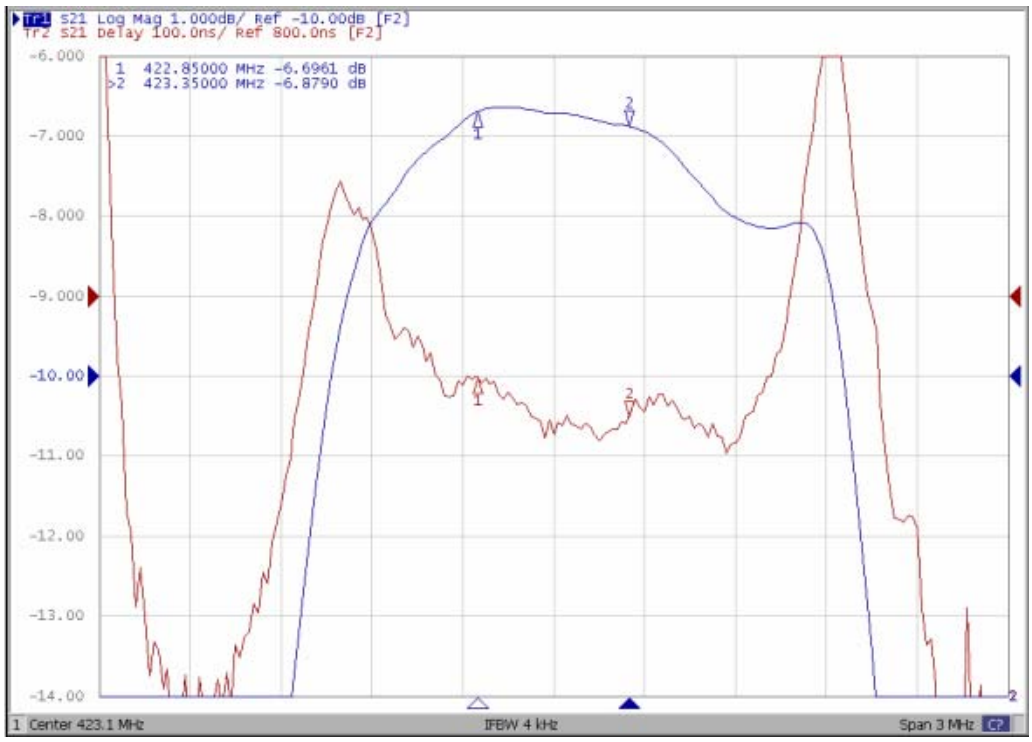
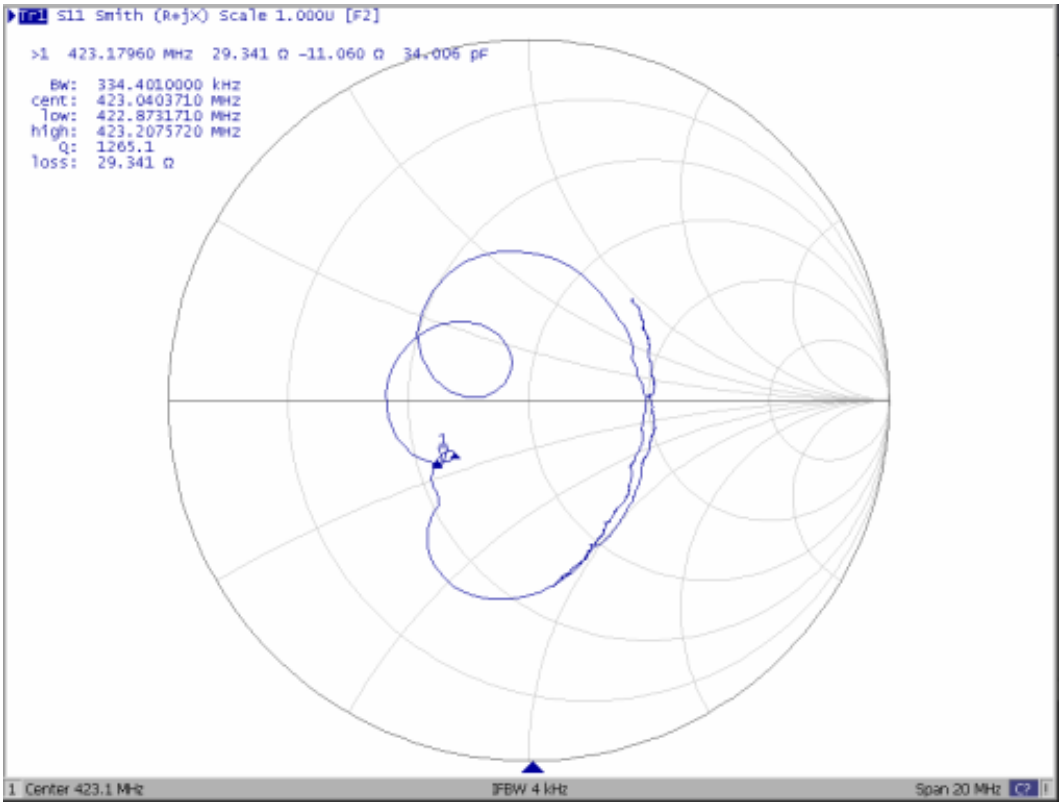
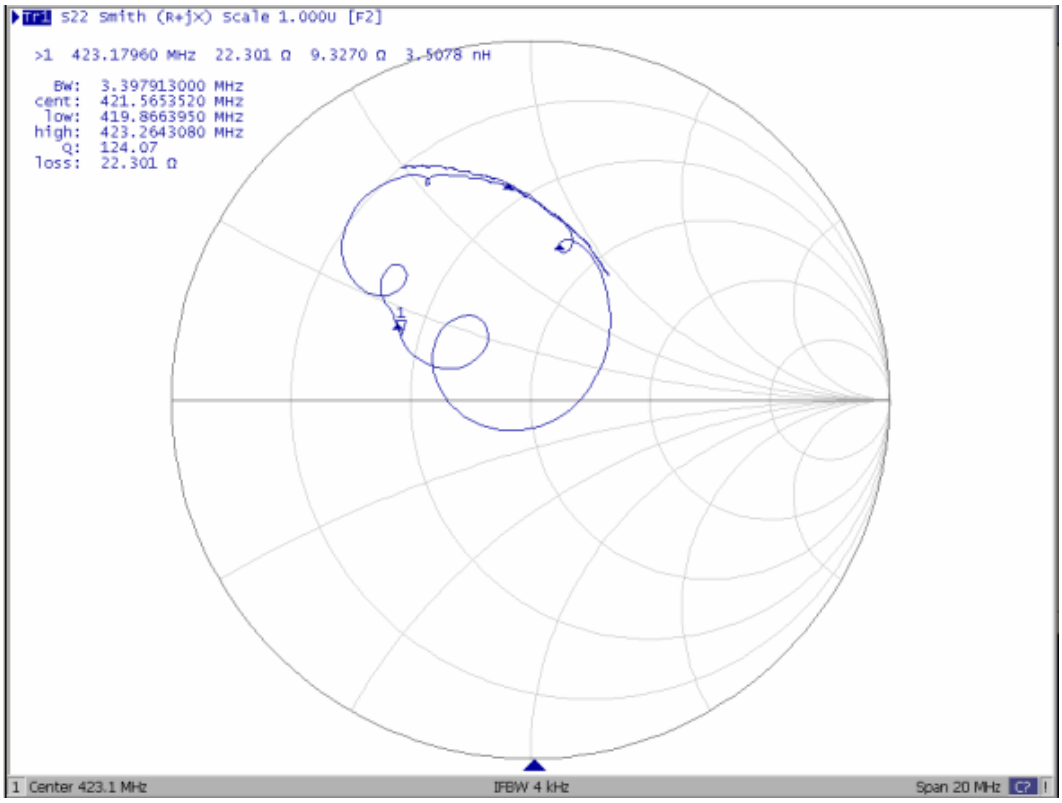


Fig2. Horizontal: 0.3MHz/Div Vertical: 1dB/Div

3. S11 Smith Chart: (span : 20MHz)

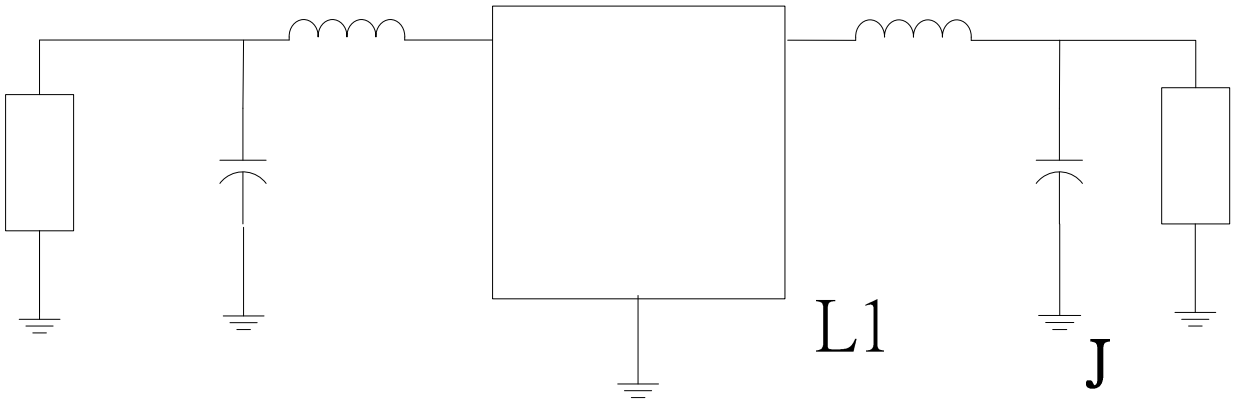


4. S22 Smith Chart (span : 20MHz)



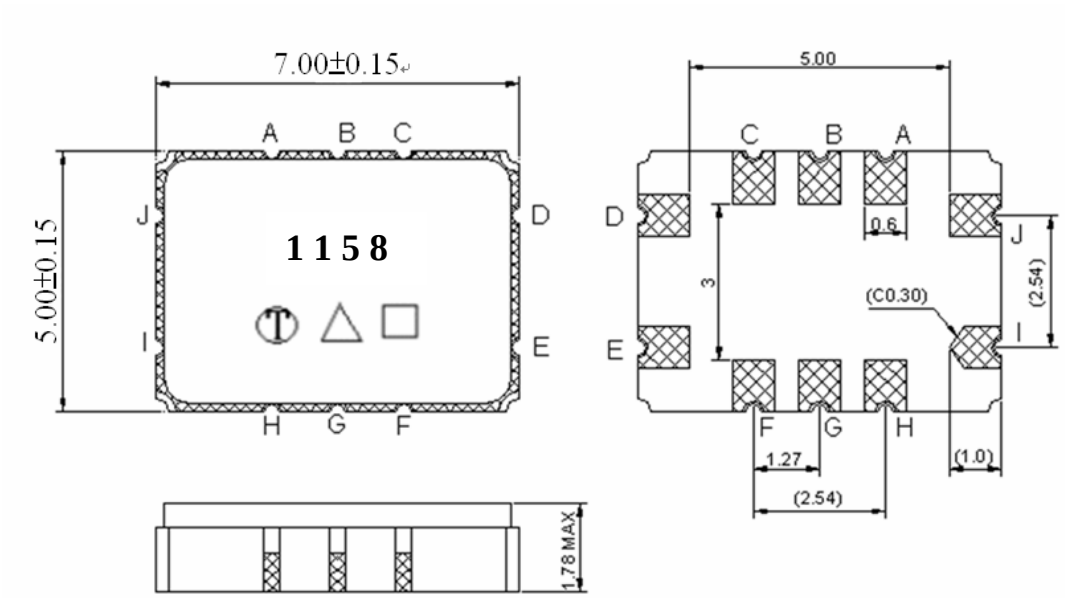
E. MEASUREMENT CIRCUIT

Zin= Zout= 50 ohm



L1=15nH, C1=20pF, L2=15nH, C1=20pF

F.OUTLINE DRAWING:



Pin J: RF input

Pin D: RF output

Pin K,E: Case Ground

Pin A, B, C, F, G, H: Ground

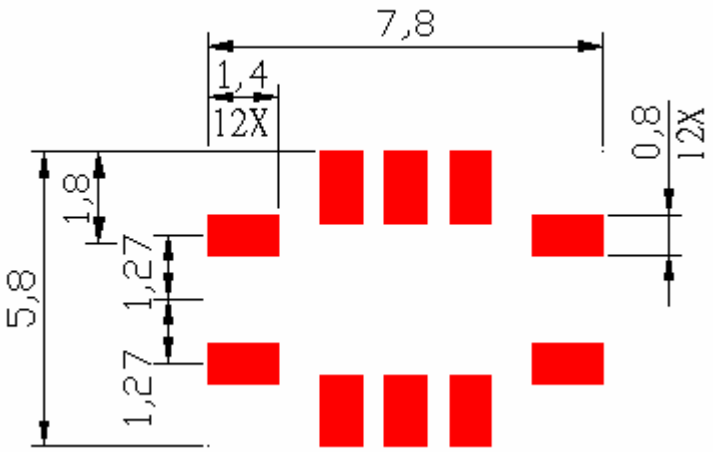
□: Week Code (Follow the table from planner each year)

WK 01➔A, 02➔B….27➔a Unit : mm

△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	B	b

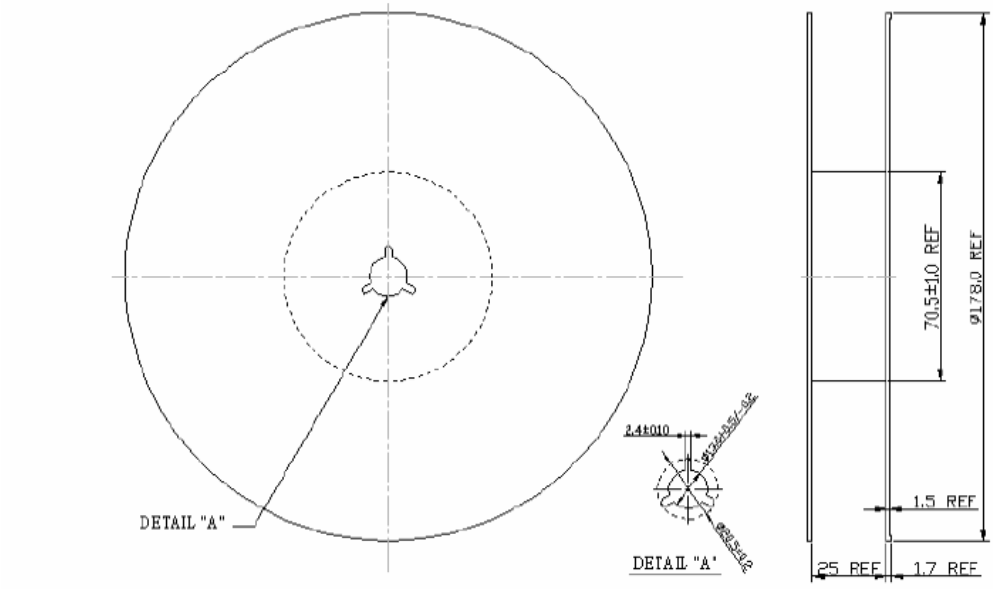
G. PCB Footprint



Unit: mm

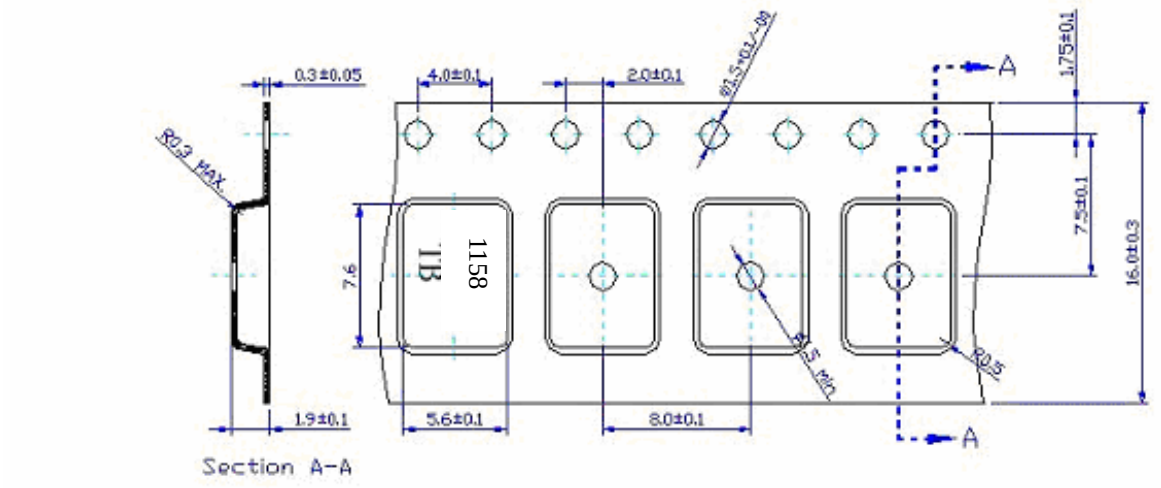
H. PACKING:

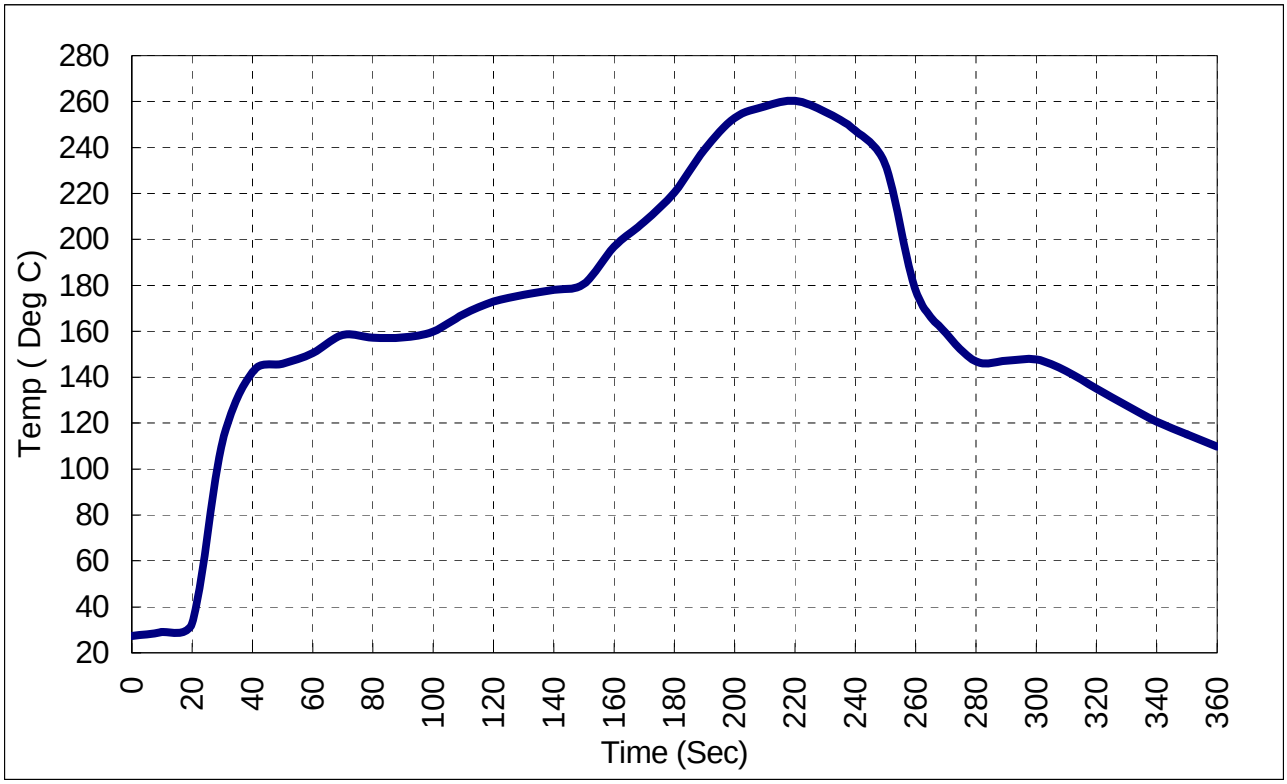
1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE :