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 Name: 200 MHz 6.0MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0971A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee

Approval by: Francis Chen

Date: 05 / 25 / 2011

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 200MHz 6.7MHz BW (SMD 7.0×5.0 mm)
MODEL NO.: TB0971A REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -35°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

B. Characteristics :

1. Ambient Temperature: 25 ° C

Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	199.9	200.0	200.1
Insertion Loss, **IL**	dB	16.5	18.7	19.5
-1dB Band Wide	MHz	6.0	6.6	-
-3dB Band Wide	MHz	6.7	7.1	-
-15dB Band Wide	MHz	-	8.4	8.7
-40dB Band Wide	MHz	-	9.3	10.5
Amplitude Ripple Fc+/-2.8MHz	dB	-	0.8	1.0
Group Delay Ripple Fc+/-2.8MHz	ns	-	90	120
Phase Linearity Fc+/-2.8MHz rms	deg	-	2.4	7.0
Attenuation (Reference level from minimum Insertion loss)				
DC ~ 150 MHz	dB	50	53	-
150MHz ~ 193MHz	dB	39	43	-
207 MHz ~ 250 MHz	dB	35	41	-
250MHz ~ 350 MHz	dB	40	42	-
Temperature Coefficient	ppm/°C	-	-23	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 50MHz)

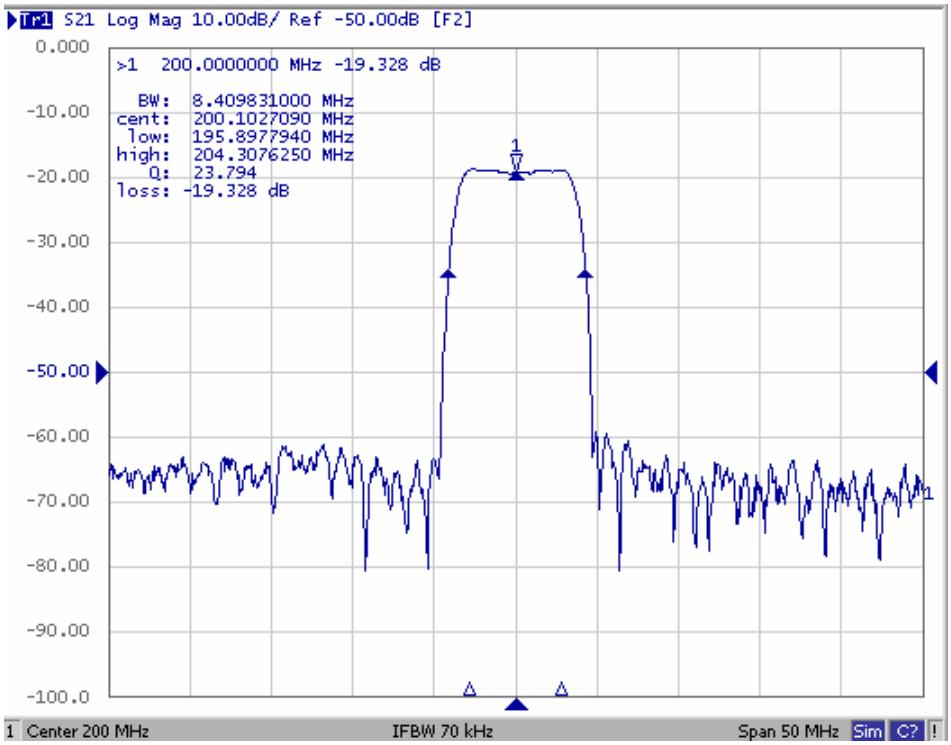


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

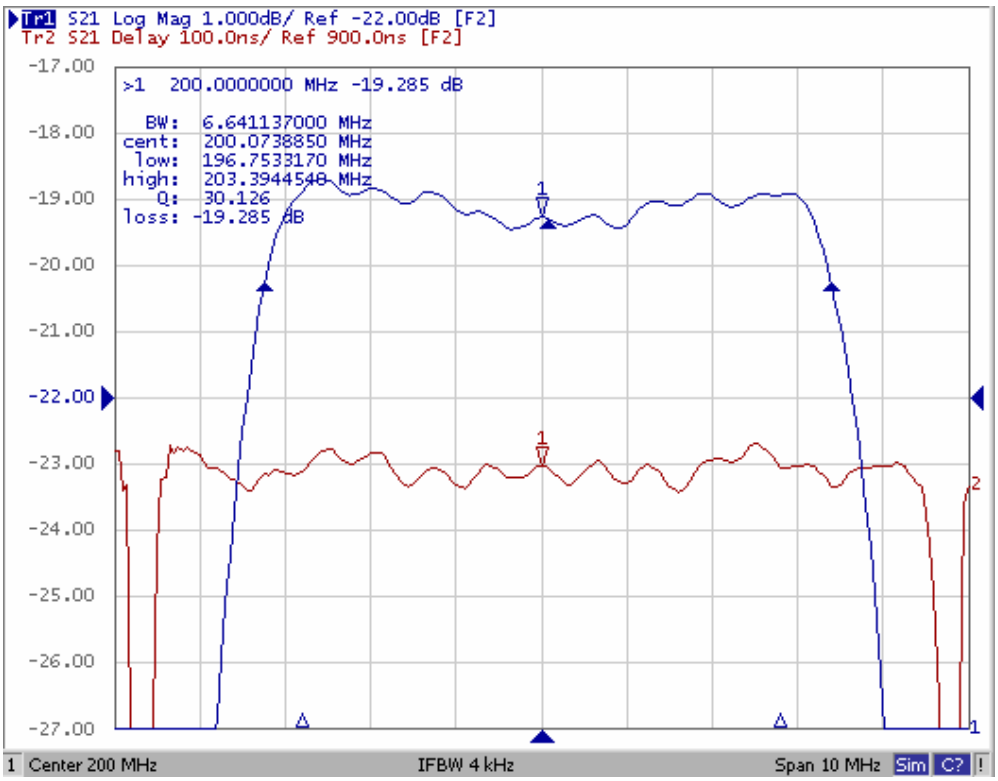
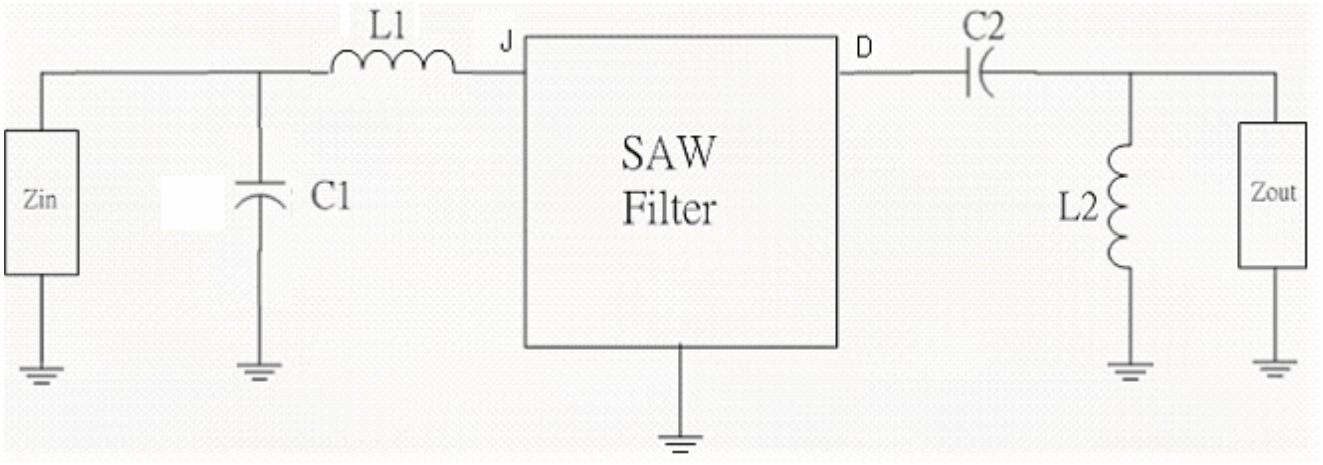


Fig2. Horizontal: 1MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

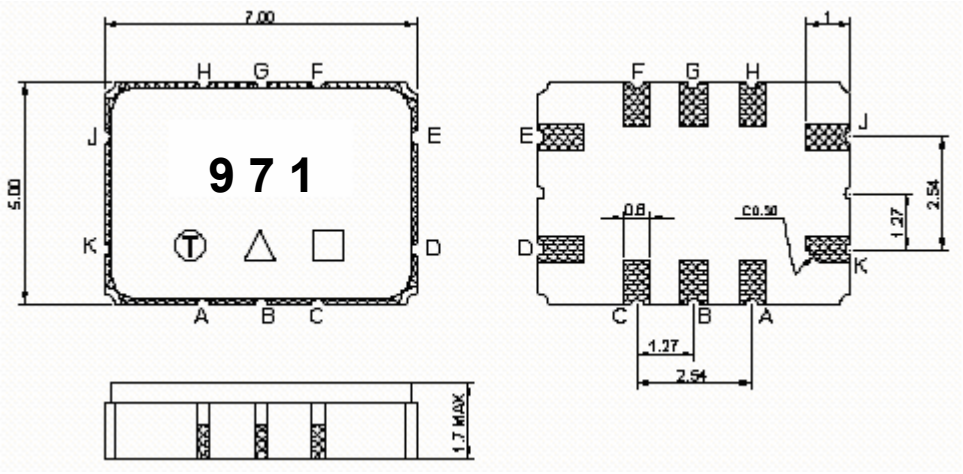
D. Matching Circuit:

50ohm single in/out



L1=15nH L2=12nH C1=33pF C2=82pF

E. Outline Drawing:



Pin J –RF input

Pin K –RF balance input or to be ground

Pin D –RF output

Pin E –RF balance ontput or to be ground

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

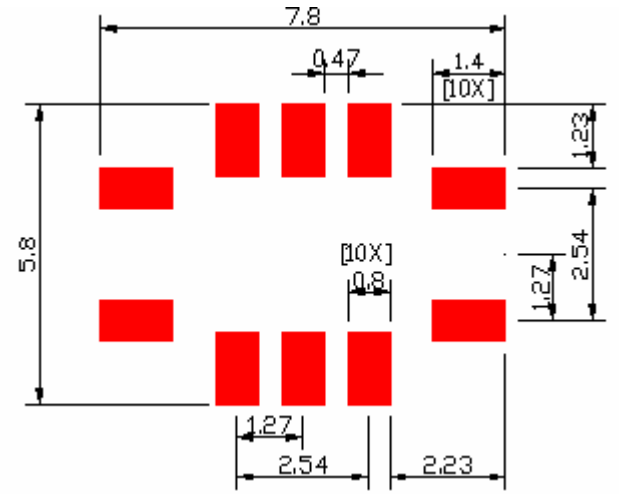
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

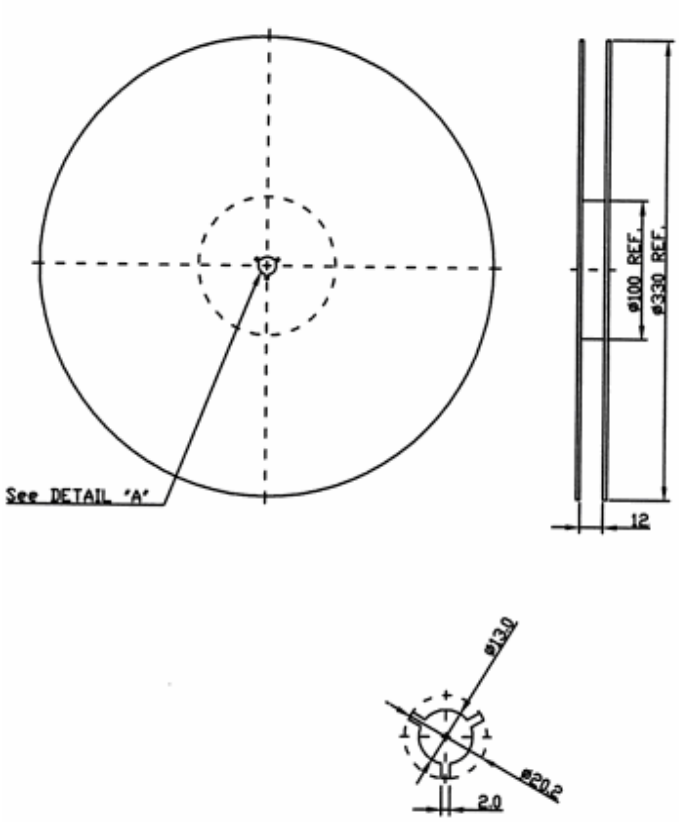
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b

F. PCB Footprint:

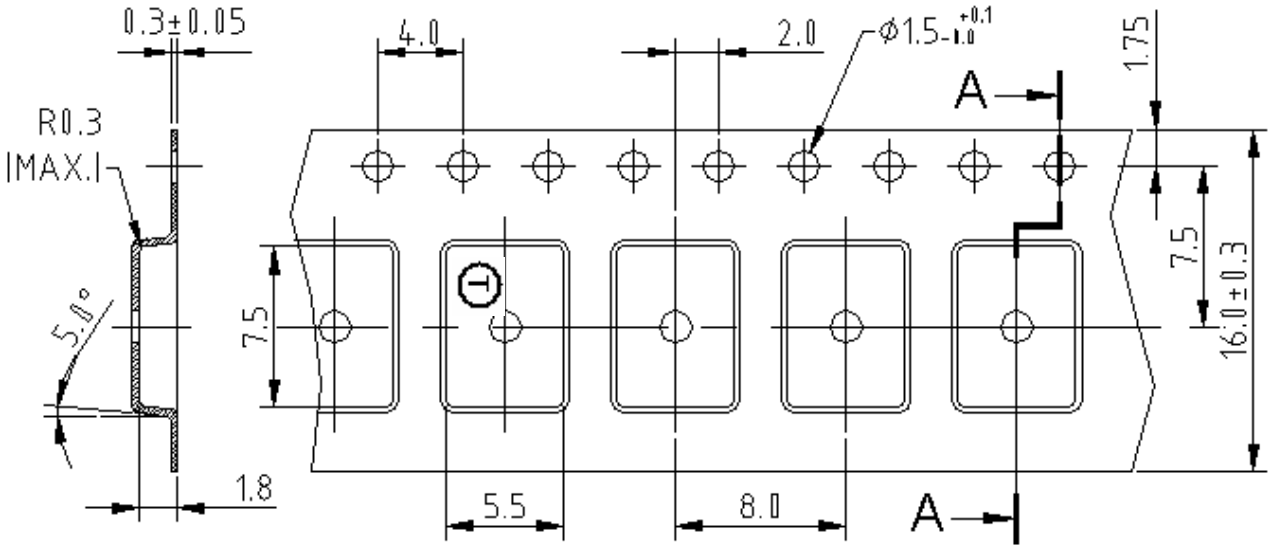


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :