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: 70 MHz 1.4MHz BW SMD 19.0 x 6.5 mm SAW IF Filter

TST Parts No.: TB1001A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee

Approval by: Francis Chen

Date: 08 / 11 / 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 70MHz 1.4MHz BW (SMD 19.0×6.5 mm)
MODEL NO.: TB1001A REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -10°C to 70°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 :

Parameters	Unit	Min.	Typical	Max.
Center frequency, **Fc**	MHz	69.97	70.00	70.03
Insertion Loss, **IL**	dB	-	17.0	20.0
1 dB Bandwidth	MHz	1.25	1.40	-
3 dB Bandwidth	MHz	1.4	1.62	-
40 dB Bandwidth	MHz	-	2.56	2.66
Relative Attenuation:				
10 to 68.3 MHz	dB	40	50	-
71.7 to 140 MHz	dB	40	45	-
Amplitude ripple within Fc ± 0.5 MHz	dB	-	0.60	1.0
Phase Linearity within Fc ± 0.5 MHz	°rms	-	1.0	2.00
Absolute Delay	usec	-	2.6	-
Substrate Material	-	-	Quartz	-

C. Frequency Characteristics :

(1) Wide band Response:(span 20MHz)

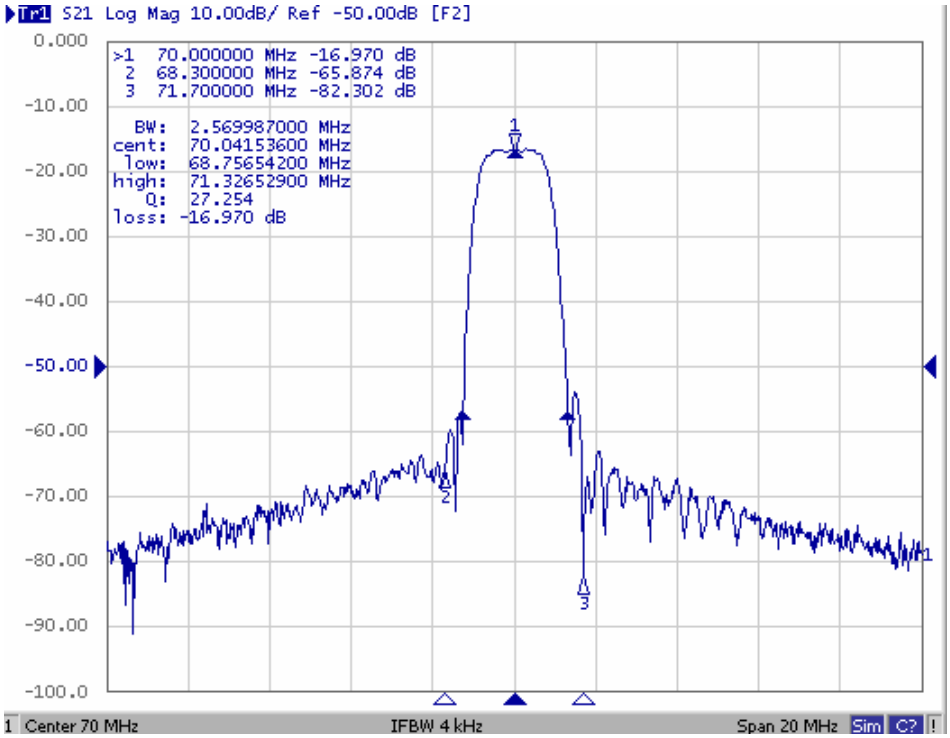


Fig1. Horizontal: 2MHz/Div Vertical: 10dB/Div

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

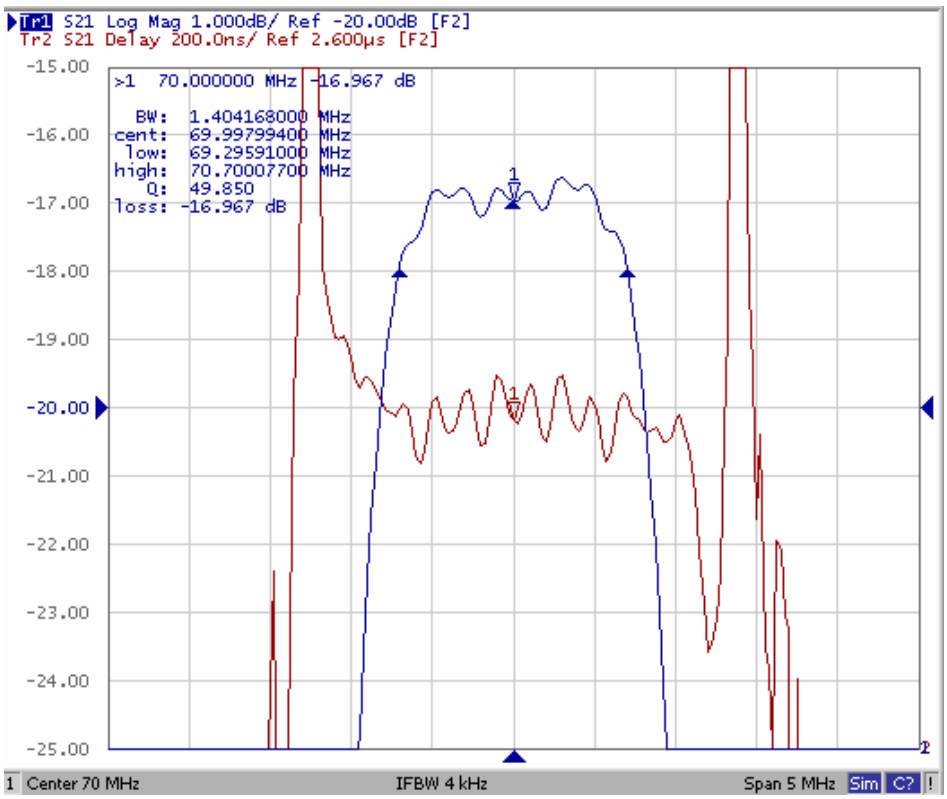
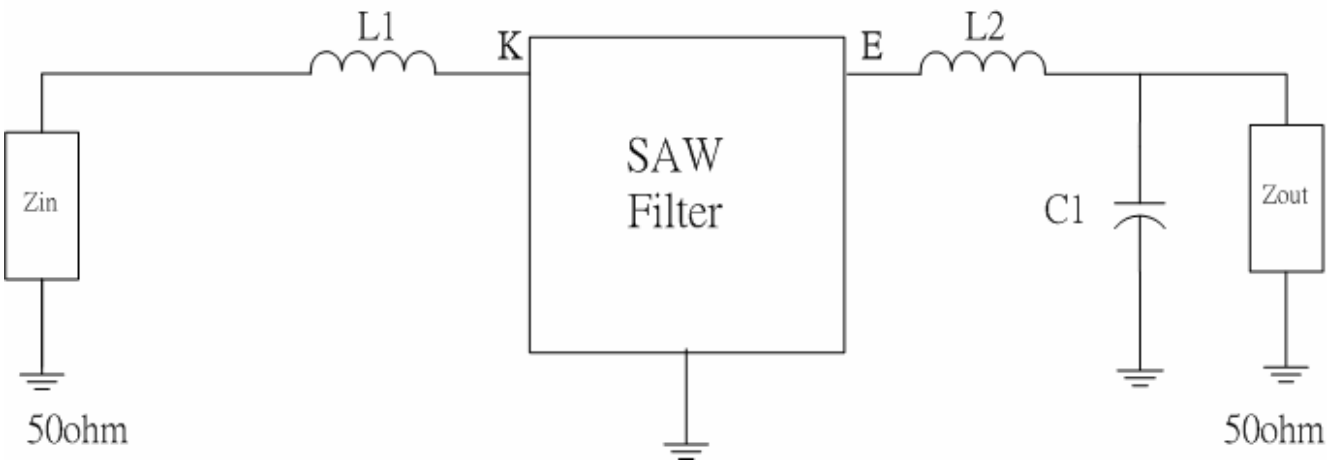


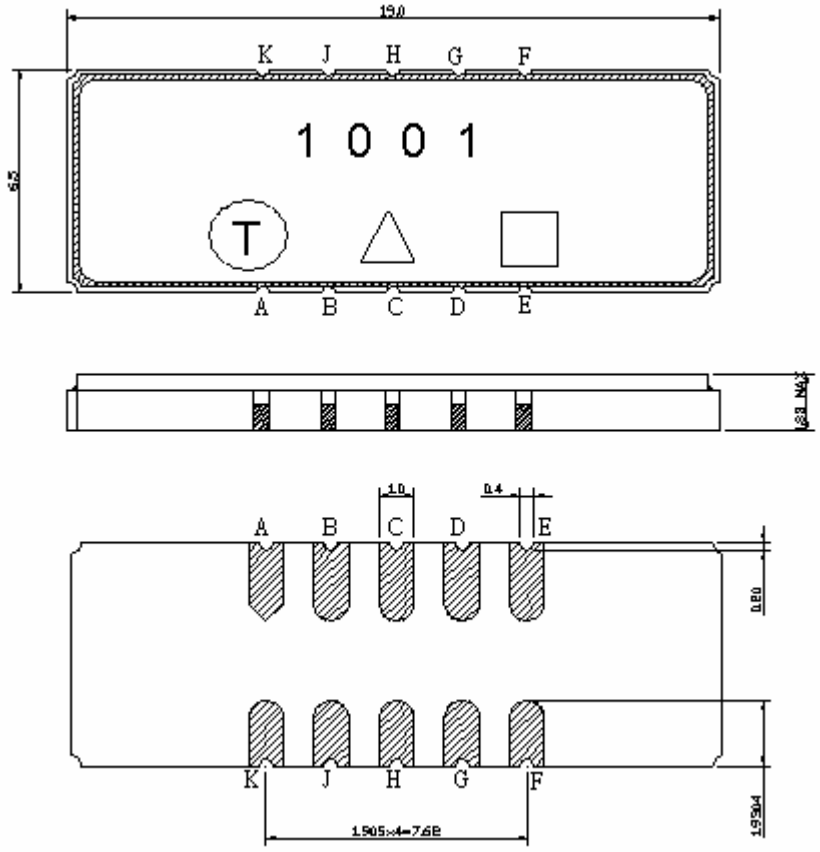
Fig2. Horizontal: 0.5MHz/Div Vertical: 1dB/Div
Vertical: 200ns/Div

D. Matching Circuit:



L1=560nH L2=470nH+68nH C1=82pF

E. Outline Drawing:



#K : Input

#A : Input Ground

#E : Output

#F : Output Ground

#B,C,D,G,H,J : Ground

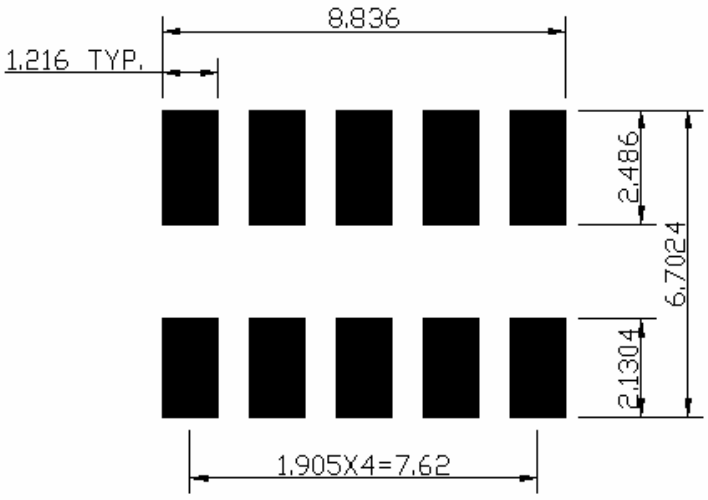
□: Week Code (Follow the table from planner each year)

Unit: mm

△ : Product / Year Code

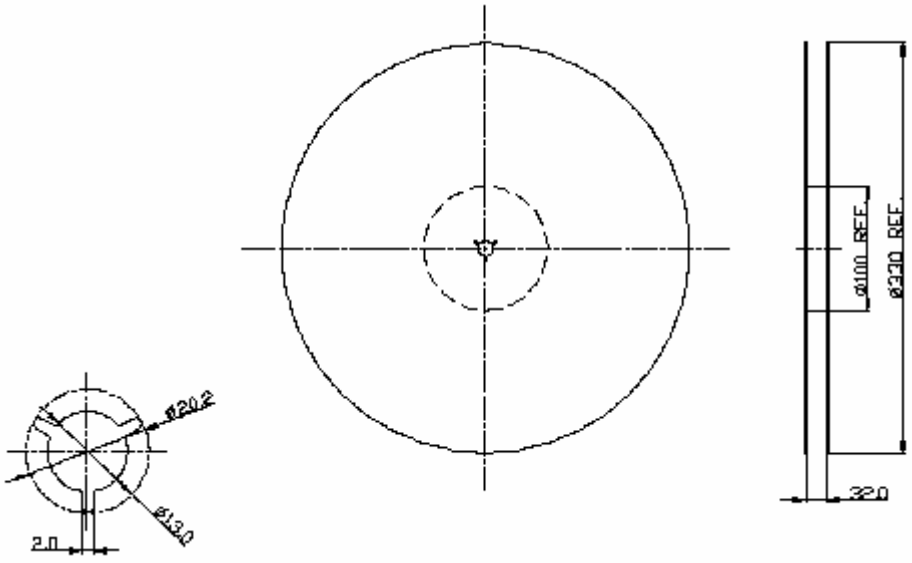
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b

F. PCB Footprint:

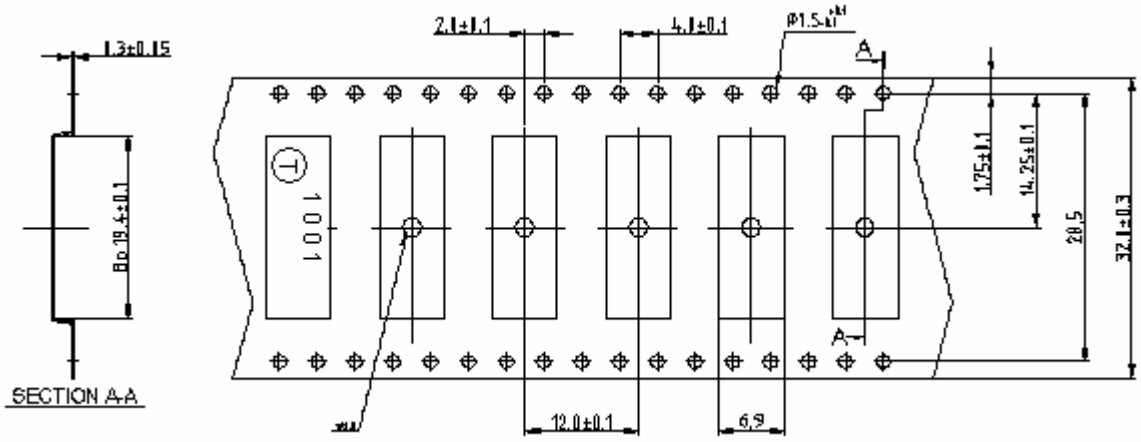


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :