



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 3.5MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB0184B

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 07 / 02 / 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.



TAI-SAW TECHNOLOGY CO., LTD.

No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C.

TEL: 886-3-4690038

FAX: 886-3-4697532

E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

SAW Filter 70MHz 3.5MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB0184B

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40℃ to 85℃
2. Storage temperature range: -40℃ to 85℃
3. Input Power Level : 20 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. Characteristics :

Parameter	Unit	Min.	Typ.	Max.
Center frequency, F_c	MHz	69.5	70	70.5
Insertion Loss, IL	dB	-	21	23.5
1 dB Bandwidth	MHz	3.5	3.75	-
3 dB Bandwidth	dB	3.8	4.1	-
40 dB Bandwidth	MHz	-	5.5	5.75
Amplitude ripple (68.6MHz~71.4MHz)	dB	-	0.75	1.2
Phase Linearity (68.5MHz~71.5MHz) (rms)	deg	-	3.5	8
Group Delay ripple (68.5MHz~71.5MHz)	nsec	-	150	250
Absolute Delay	μsec	-	1.4	-
Attenuation (Reference level from 0 dB)				
10 ~ 56MHz	dB	55	63	-
84~140MHz	dB	55	63	-
Substrate Material	-	-	LT	-
Temperature Coefficient	ppm/ °C	-	-18	-
Ambient Temperature	°C	-	25	-

C. Frequency Characteristics :

(1) Wide band Response:



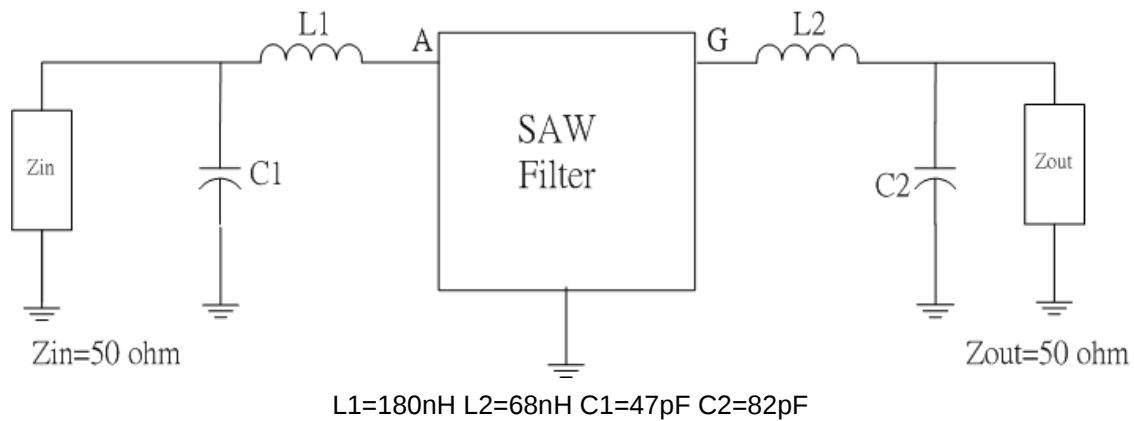
Fig1. Horizontal: 2MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Delay Response:

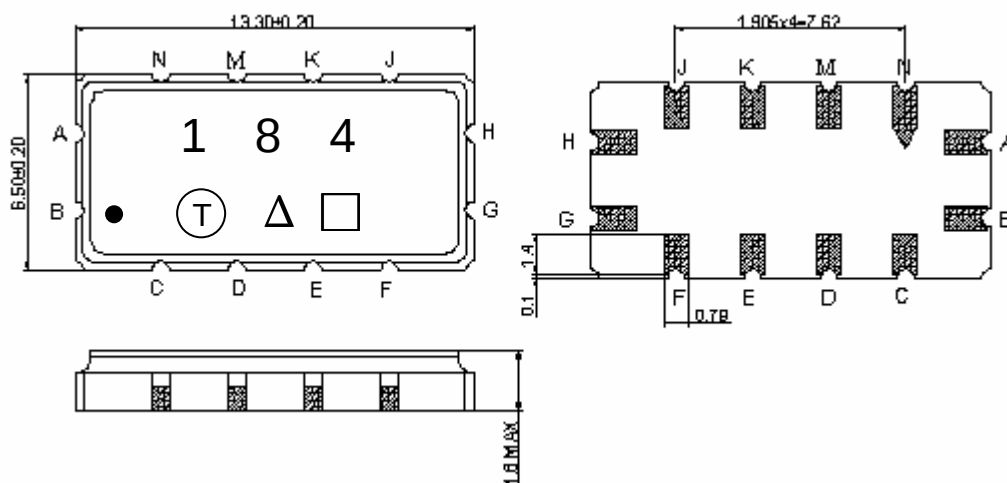


Fig2. Horizontal: 0.5MHz/Div Vertical: 1dB/Div
Vertical: 200ns/Div

D. Matching Circuit:



E. Outline Drawing:



Pin A –RF input

Pin B –RF input ground

Pin G –RF output

Pin H –RF output ground

Pin C, D, E, F, J, K, M, N - Ground

□ : Week Code

Unit : mm

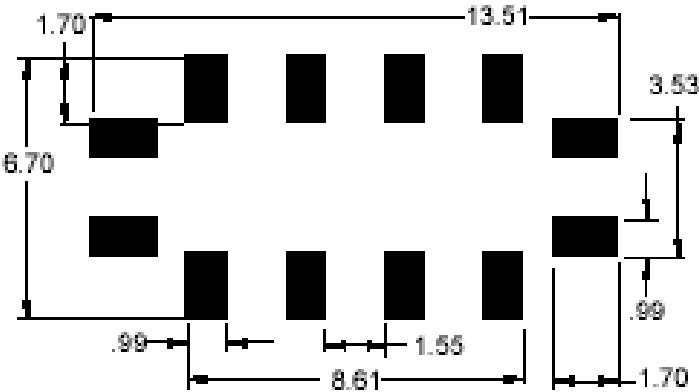
△ : Product / Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

Week Code Table

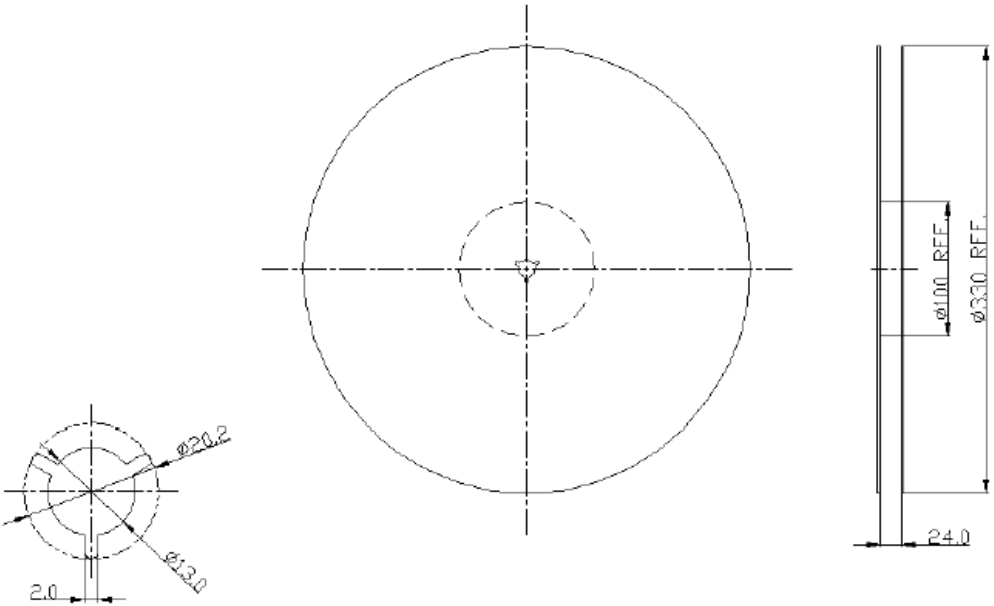
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F. PCB Footprint:



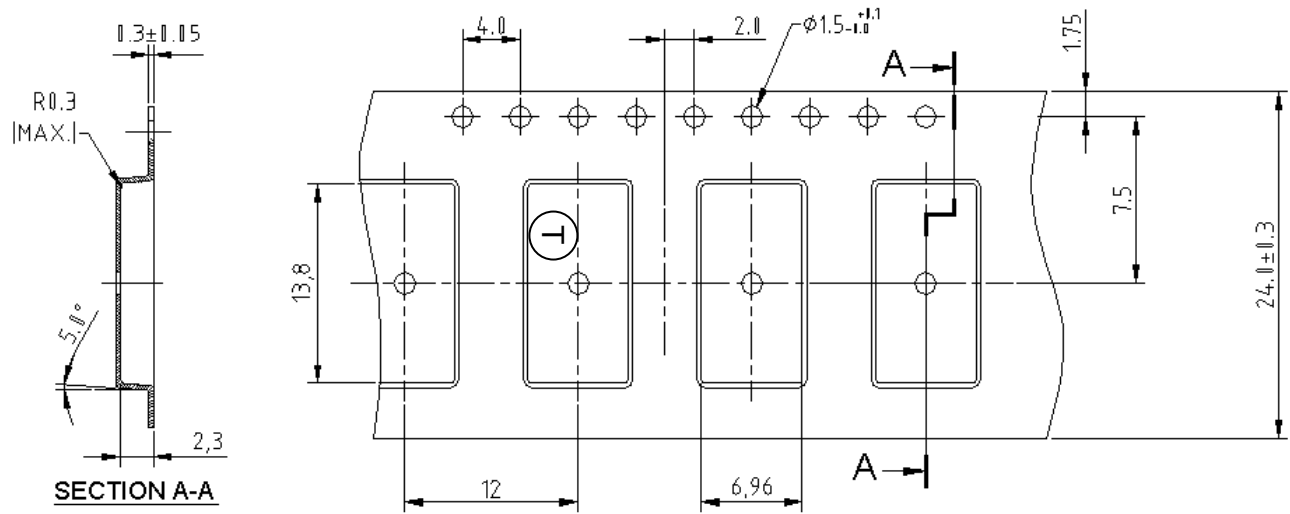
G. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

