

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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

Р	roduct Name: 70	MHz 16MHz BW SN	ID 13.3 x 6.5 mm SAW IF Filter
Т	ST Parts No.: TB0	0214B	
С	ustomer Parts No).: <u> </u>	
	Customer signature	e required	
	Company:		
	Division:		
	Approved by :		
	Date:		
Checked		Kazuma Lee	Losuma dec
Approva	l by:	Bob Chau	J. Selm
Date:		11 / 05/ 2014	

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.

TST DCC
Release document



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

 $\hbox{E-mail:}\ \underline{tstsales3@mail.taisaw.com}\ \hbox{Web:}\ \underline{www.taisaw.com}$

Low-Loss 70 MHz IF SAW Filter (SMD 13.3×6.5 mm)

Model No.: TB0214B Rev. No.:1

A. Maximum Rating:

RoHS Compliant Lead free Lead-free soldering

Electrostatic Sensitive Device

1. Input Power Level: +20 dB_m

2. Operating Temperature: -40°C to +85°C

3. Storage Temperature: -40°C to +85°C

B. Electrical Characteristics:

Parameters	Unit	Min.	Typical	Max.
Center frequency, Fc	MHz	•	70	-
Insertion Loss, IL	dB	-	12.2	14.0
3 dB Bandwidth	MHz	16.0	16.42	-
Amplitude Ripple within Fc \pm 7 MHz	dB	-	0.5	1.5
Group Delay Ripple within Fc ± 7 MHz	nsec	-	40	80
Absolute Group Delay at Fc	us	-	0.88	-
Relative Attenuation:				
10 to 59.5 MHz	dB	40	43	-
82 to 140 MHz	dB	40	43	-
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

C. Frequency Characteristics:

(1) Frequency Response



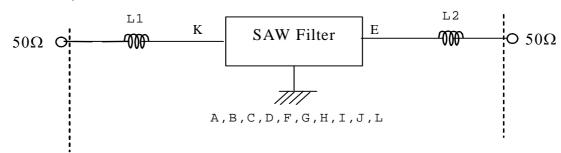
(2) Passband response and Group Delay Variation



D. Measurement Circuit:

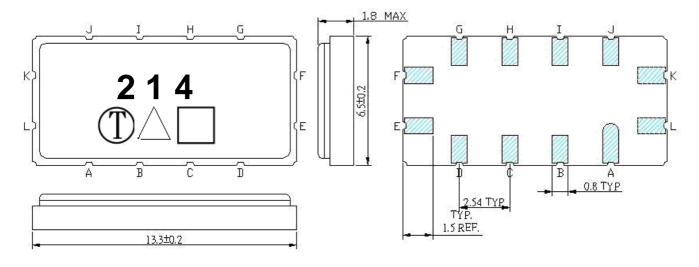
Source and load impedance: 50 Ω

Network analyzer



Input: L1=220 nH, Q>40 Output: L2=220 nH, Q>40

E. Outline Drawing:



Unit: mm

Pin K: RF Input
Pin E: RF Output
Pin L: Input Ground

Pin F: Output Ground

Pin A, B, C, D, G, H, I, J: To be Ground

: Week Code

Unit: mm

 \triangle : Product / Year Code

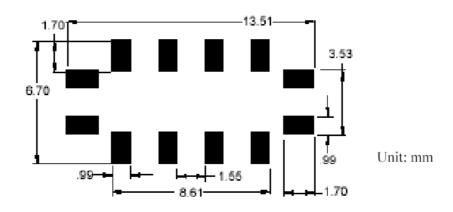
4

Year	2013	2014	2015	2016
	2017	2018	2019	2020
Product Code	В	b	<u>B</u>	<u>b</u>

Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	I	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	I	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	s	t	u	V	w	х	у	Z

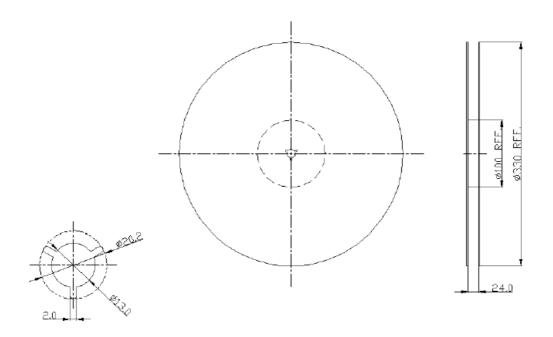
F. PCB Footprint:



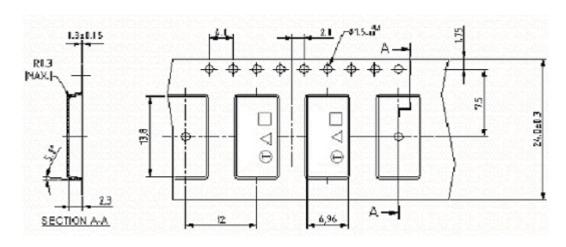
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



Direction of feed

H. RECOMMENDED REFLOW PROFILE_:

