



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: 138.24 MHz 76MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0713A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee

Approval by: _____ Bob Chau

Date: _____ 08 / 16 / 2013

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 138.24MHz 76MHz BW (SMD 5×7 mm)

MODEL NO.: TB0713A

Rev No.2

A. MAXIMUM RATING:

1. Operating temperature range: -10°C to 80°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 Sensitive Device

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	138.24	-
Insertion Loss, IL	dB	-	23.8	25
Upper -1dB frequency	MHz	176.24	177.3	-
Lower -1dB frequency	MHz	-	98.92	100.24
Upper -35dB frequency	MHz	-	183.00	186
Lower -35dB frequency	MHz	90	96.2	-
Passband Ripple F _c +/- 38MHz	dB	-	0.7	1.5
Attenuation (Reference level from minimum Insertion loss)				
DC MHz ~ 90 MHz	dB	36	40	
190 MHz ~ 290 MHz	dB	30	35	
290 MHz ~ 390 MHz	dB	25	28	
390 MHz ~ 600 MHz	dB	35	39	
Temperature Coefficient	ppm/°C	-	-72	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 600MHz)

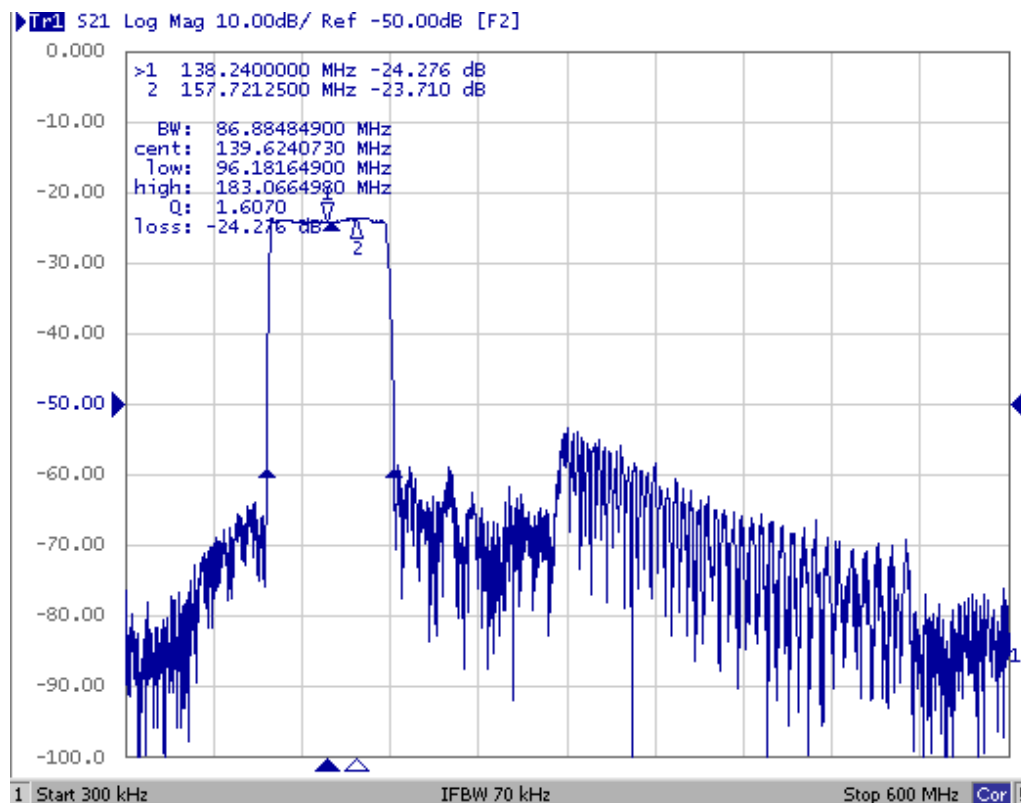


Fig1. Horizontal: 60MHz/Div Vertical: 10dB/Div

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

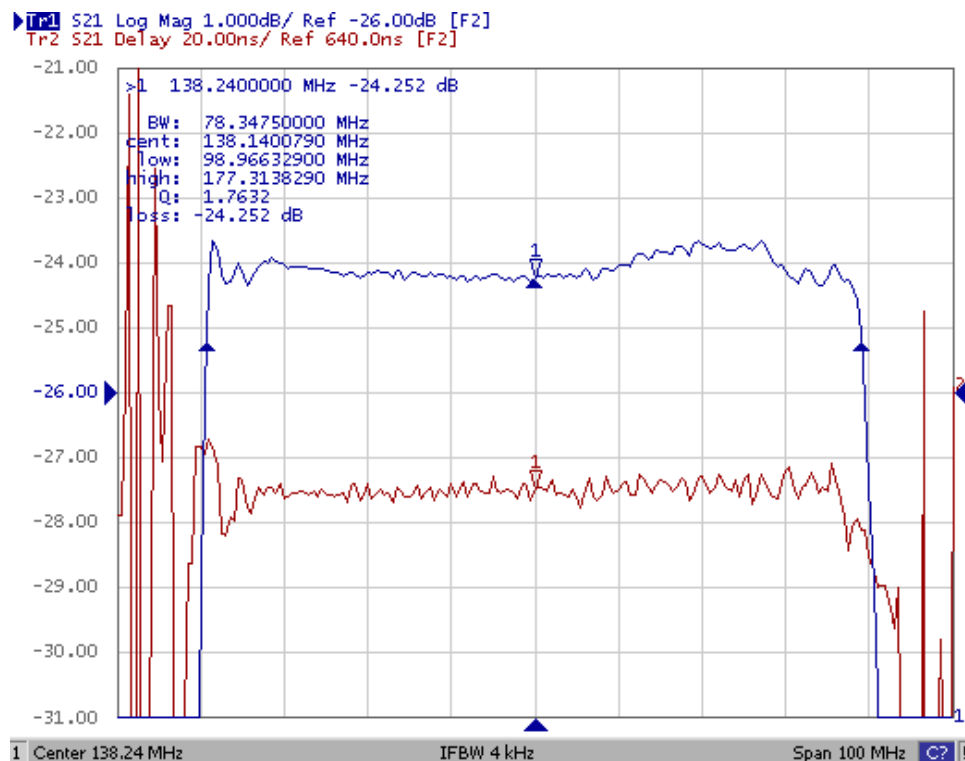
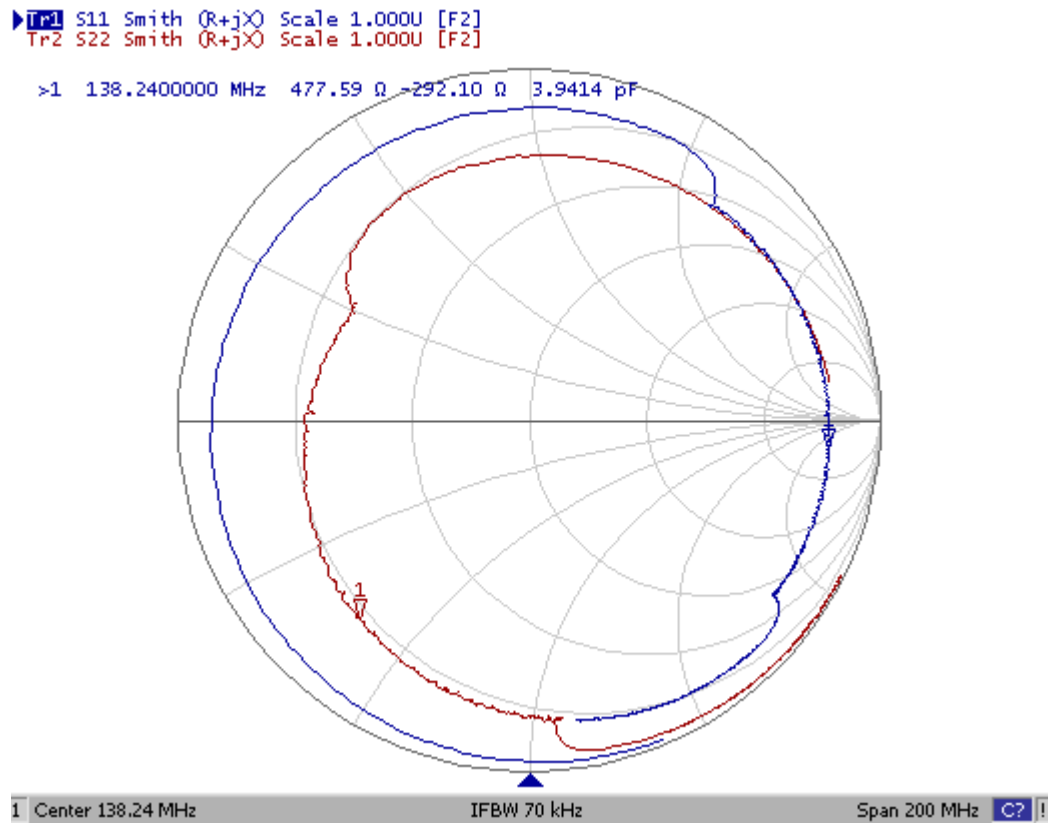
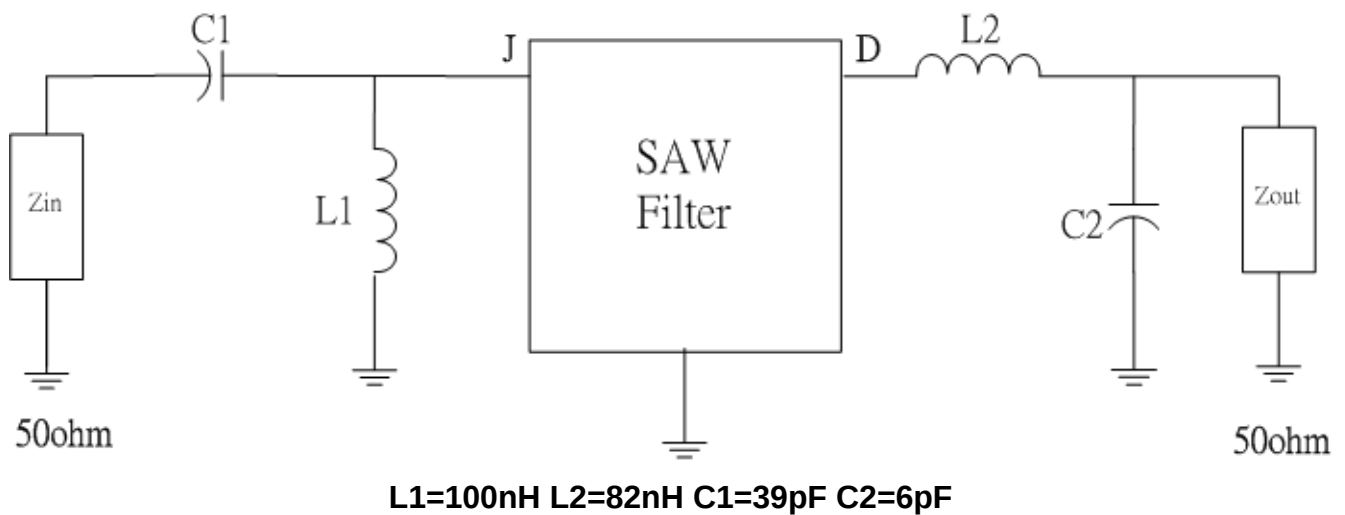


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
Vertical: 20ns/Div

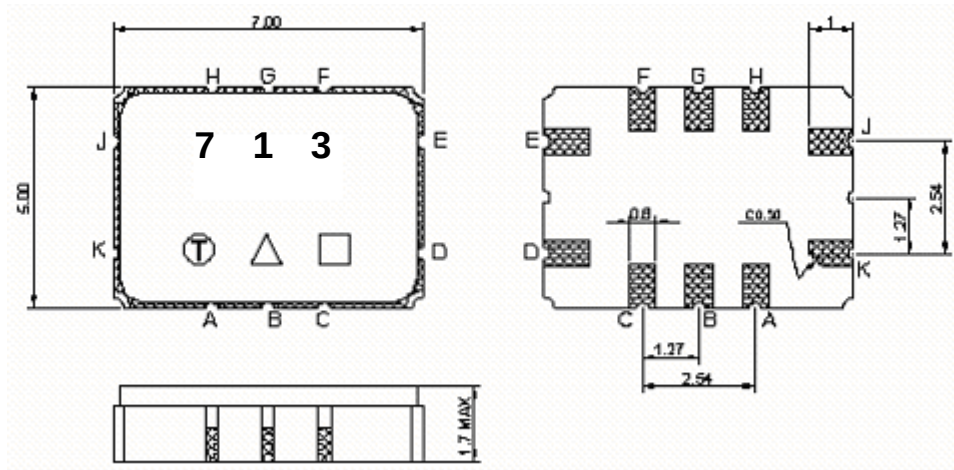
(3) Smith Chart:



D. Matching Circuit:



E. Outline Drawing:



Pin J –RF input

Pin K –RF input ground

Pin D –RF output

Pin E –RF output ground

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

□ : Week Code

Unit : mm

: Product / Year Code

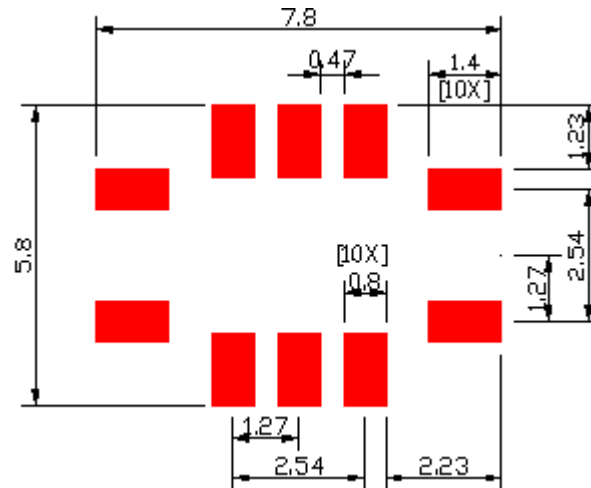
Product Code Table

Year	2013 2017	2014 2018	2015 2019	2016 2020
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

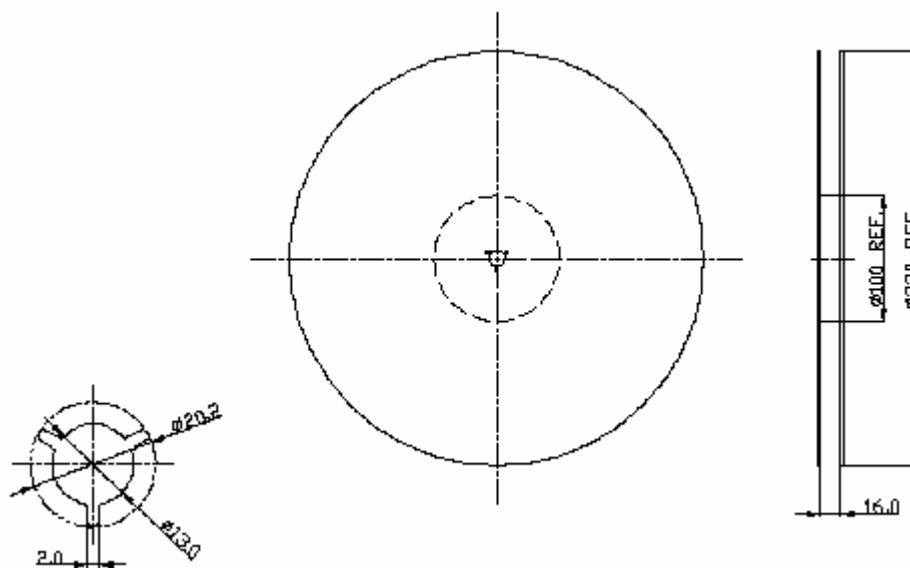
F. PCB Footprint:



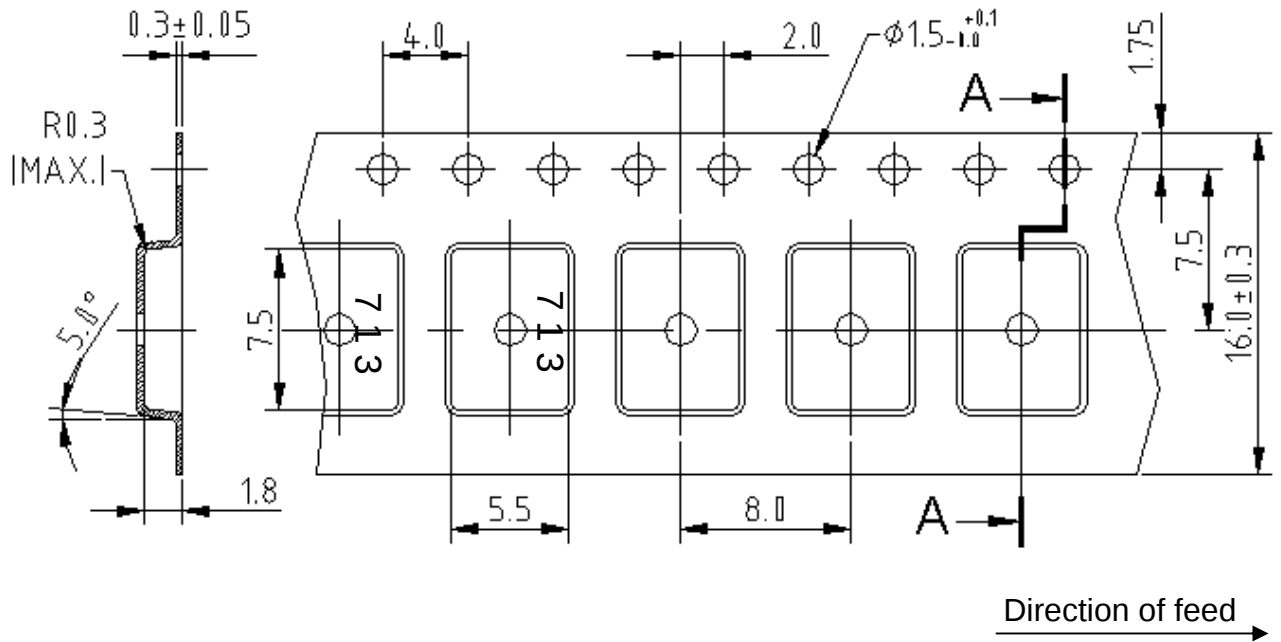
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

