



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: 380 MHz 5MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.:TB0198A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by : _____

Date:_____

Checked by:_____ Marco Huang *Marco Huang*

Approval by:_____ Bob Chau *Bob Chau*

Date:_____ 02 / 16 / 2015

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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IF SAW Filter 380 MHz SMD 7X5mm

MODEL NO.: TB0198A

REV. NO.2

A. MAXIMUM RATING:

1. Input power level: 0 dBm
2. Operating Temperature: -10 °C ~ +85 °C
3. Storage Temperature: -40 °C ~ +85 °C

RoHS Compliant
Lead free
Lead-free soldering

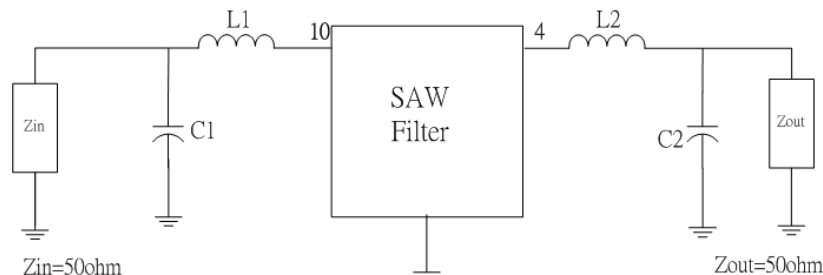
Electrostatic Sensitive Device

B. CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Characteristics		Value		
		Min.	Typ.	Max.
Center frequency F_C	MHz	-	380	-
Minimum Insertion loss I.L.	dB	-	12.8	16
Passband Ripple (378~382MHz)	dB	-	0.5	1
Group Delay Ripple (378~382MHz)	dB	-	40	100
Phase linearity (378~382MHz)	rms	-	1.2	4
Attenuation:(Reference level from minimum insertion loss)		dB		
1) F_C-2 MHz.... F_C+2 MHz	dB	-	0.5	1
2) F_C-250 MHz ~ F_C-30 MHz	dB	40	55	-
3) F_C-30 MHz ~ F_C-16 MHz	dB	35	54	-
4) F_C-16 MHz ~ F_C-4 MHz	dB	30	32	-
5) F_C+4 MHz ~ F_C+16 MHz	dB	30	32	-
6) F_C+16 MHz ~ F_C+30 MHz	dB	35	53	-
7) F_C+30 MHz ~ F_C+250 MHz	dB	40	55	-

C. MATCHING CIRCUIT:



L1=33nH L2=39nH C1=22pF C2=15pF

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TST DCC
Release document

D. FREQUENCY CHARACTERISTICS:

1. S21 Response

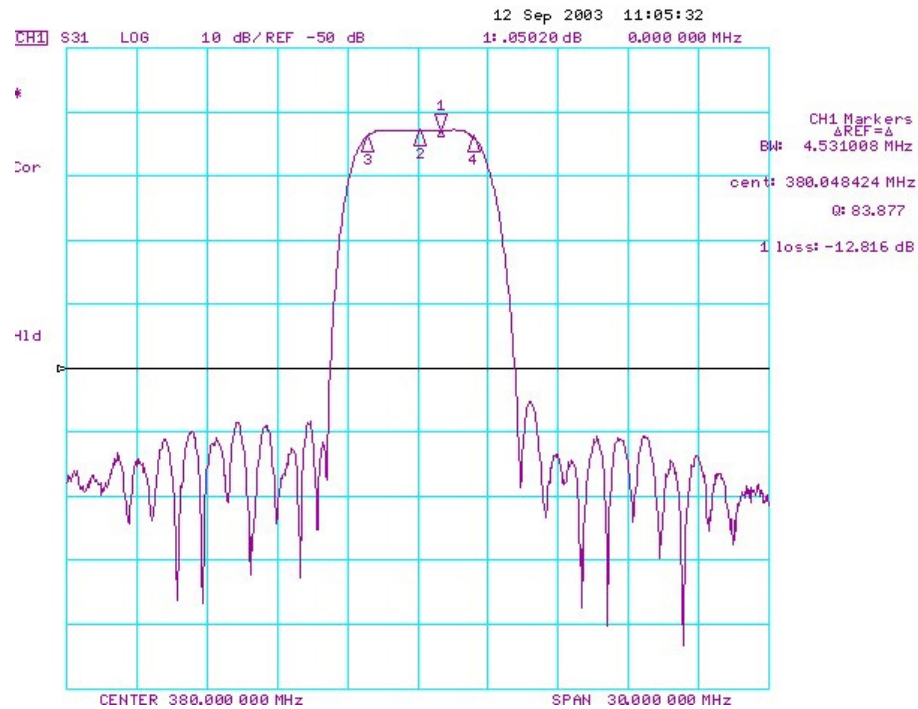


Fig1. Horizontal: 3MHz/Div Vertical: 10dB/Div

2. S21 Response (Group delay ripple of Passband)

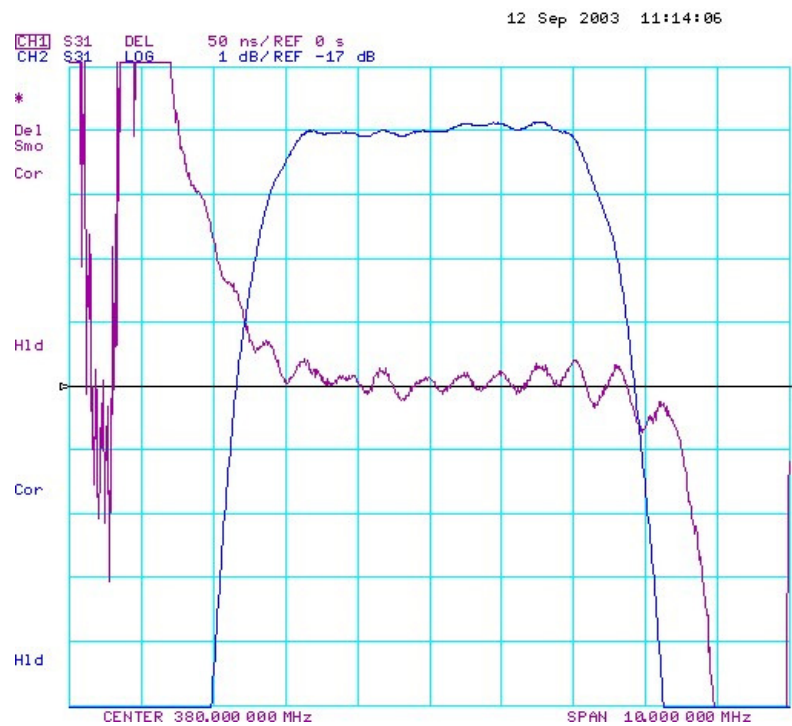


Fig2. Horizontal: 1MHz/Div Vertical: 1dB/Div
Vertical: 50nS/Div

3. S21 Response (Phase linearity of Passband)

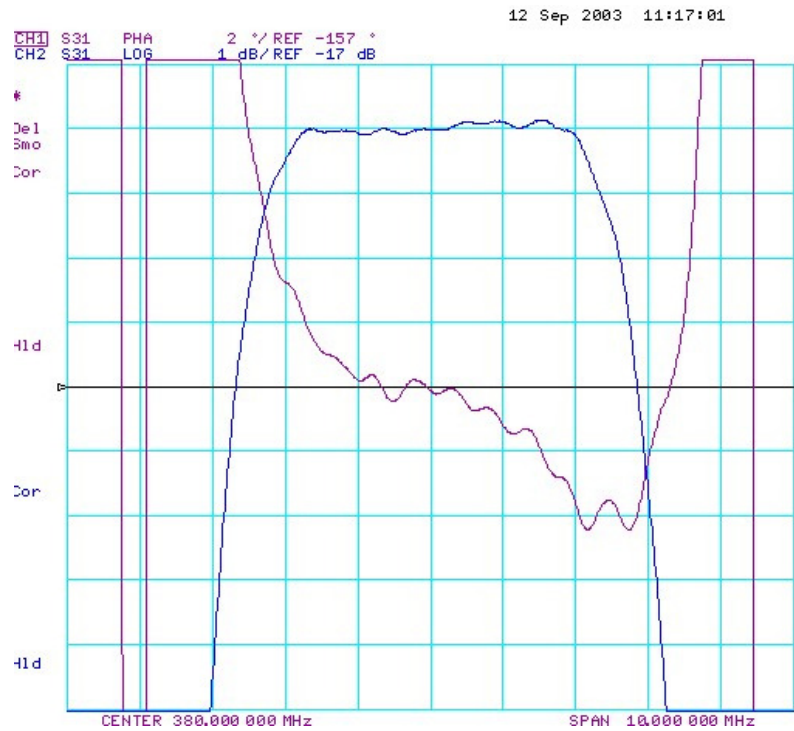
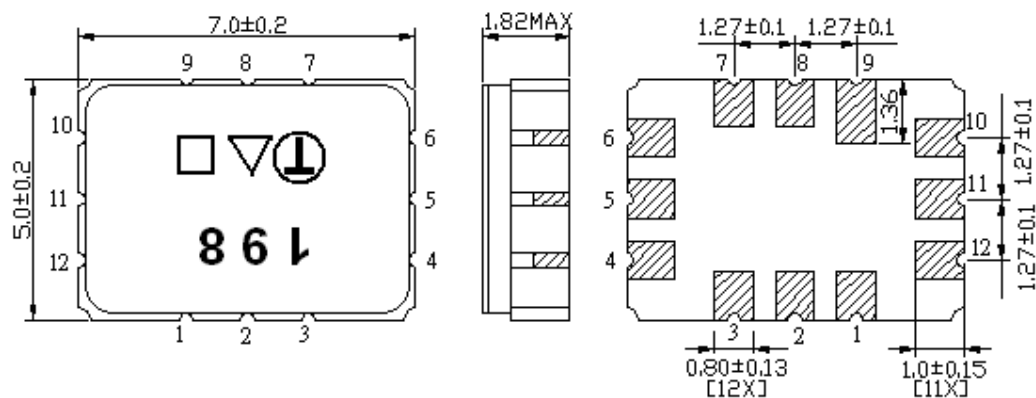


Fig3. Horizontal: 1MHz/Div Vertical: 1dB/Div
Vertical: 2 degree/Div

E. OUTLINE DRAWING:



Pin 10 : RF Input
Pin 9 : RF Input Return
Pin 4 : RF Output
Pin 3 : RF Output Return
Pin 1,2,5,6,7,8,11,12 : To be Ground
Unit : mm

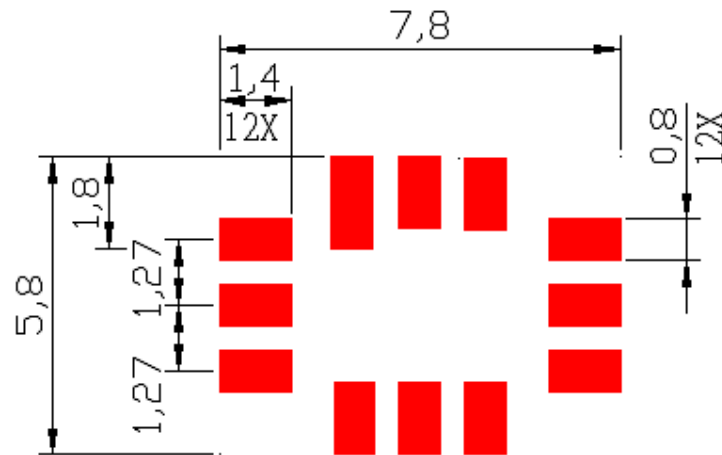
△ Product / Year Code

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

□ Week Code Table

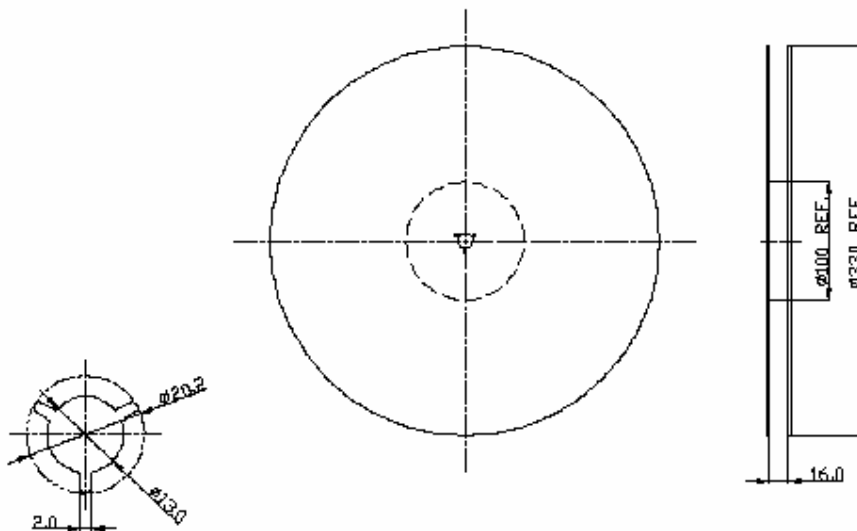
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A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47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

F. PCB FOOTPRINT:

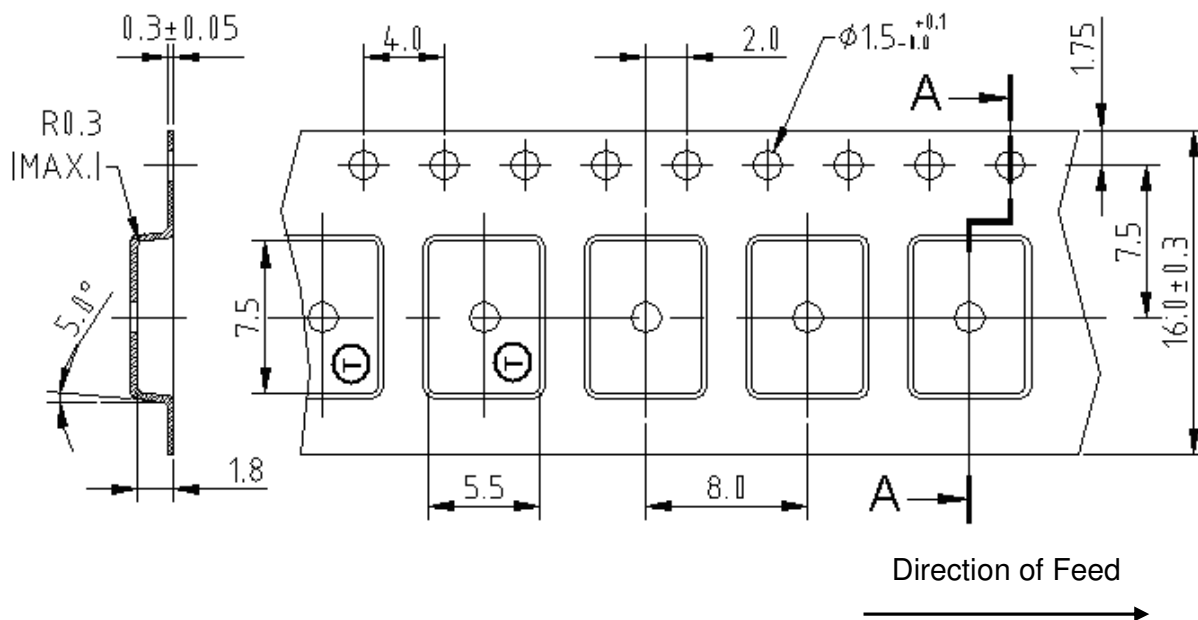


G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at $245 \sim 260^\circ\text{C}$ peak (min. 10sec).
4. Time : 2 times.

