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 Description: 173.13 MHz 15KHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1219A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Kazuma Lee_____

Approval by:_____Bob Chau_____

Date:_____02 / 23 / 20156_____

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 173.13MHz SMD 7.0X5.0mm

MODEL NO.: TB1219A REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -10°C to 75°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

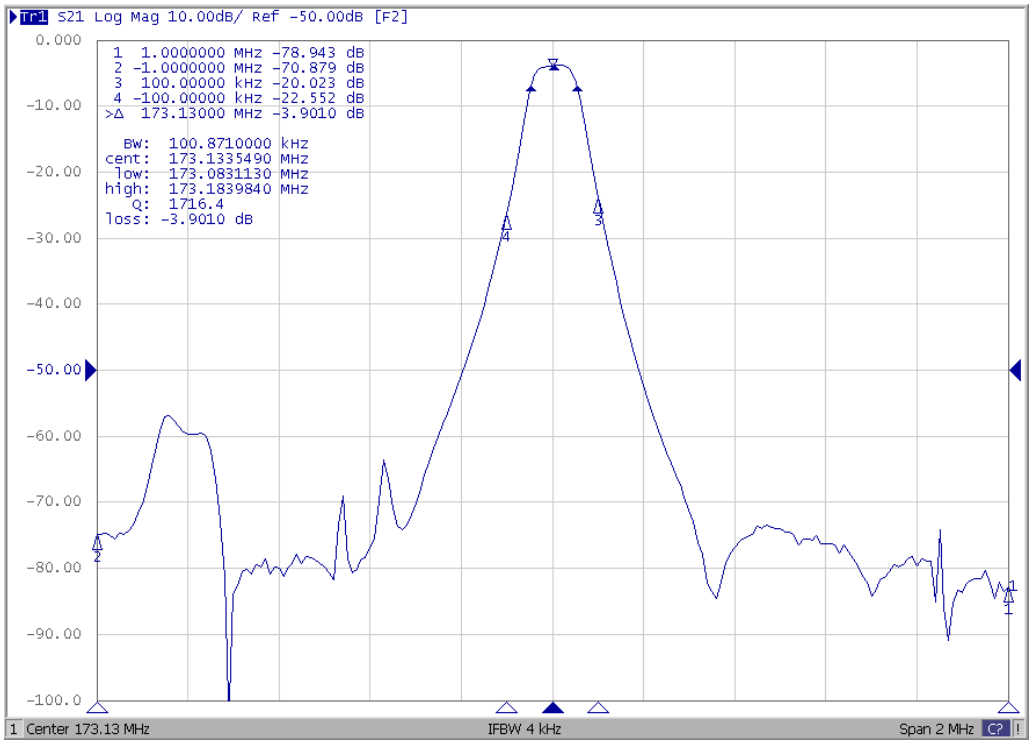
Electrostatic **S**ensitive **D**evice

B. ELECTRONIC CHARACTERISTICS:

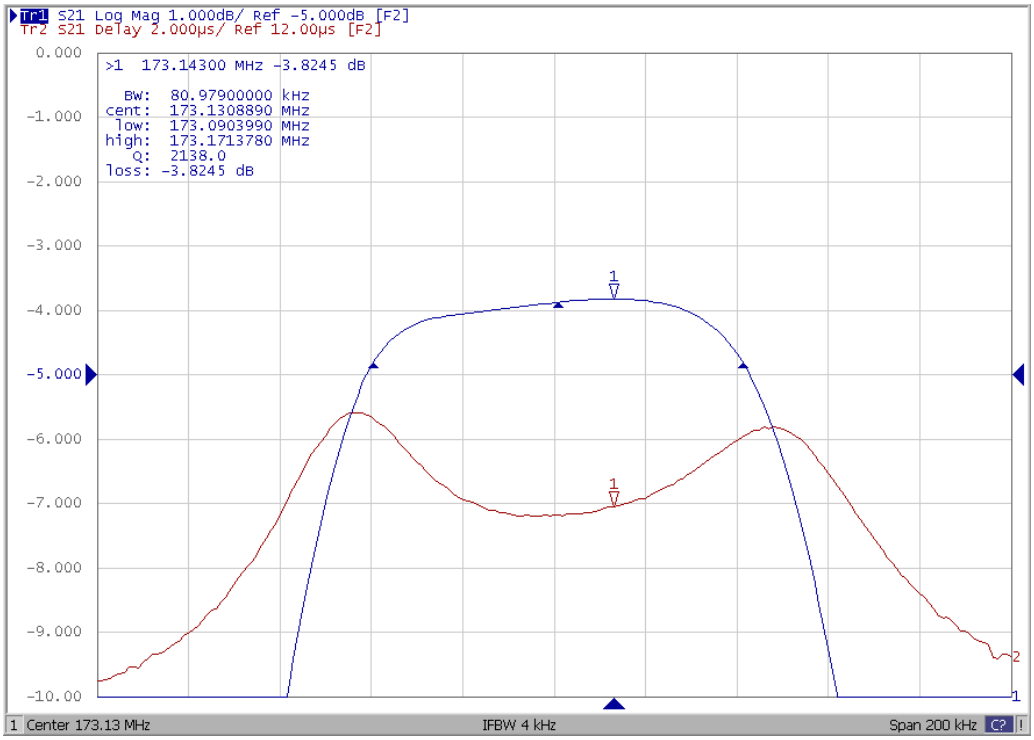
Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	173.13	-
Insertion Loss, **IL** at 25 °C	dB	-	2.8	4.2
Insertion Loss, **IL** at -10°C to 75°C	dB	-	2.8	4.6
Passband Ripple Fc+/- 7.5kHz at -10°C to 75°C	dB	-	0.2	±0.7
Attenuation:(Reference level from Min IL)				
Fc+/-1MHz	dB	55	60	-
Fc+/-100kHz at 25 °C	dB	10	18	-
Fc+/-100kHz at -10°C to 75°C	dB	7	18	-
Temperature Coefficient	ppm/°C^2	-	-0.036	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS:

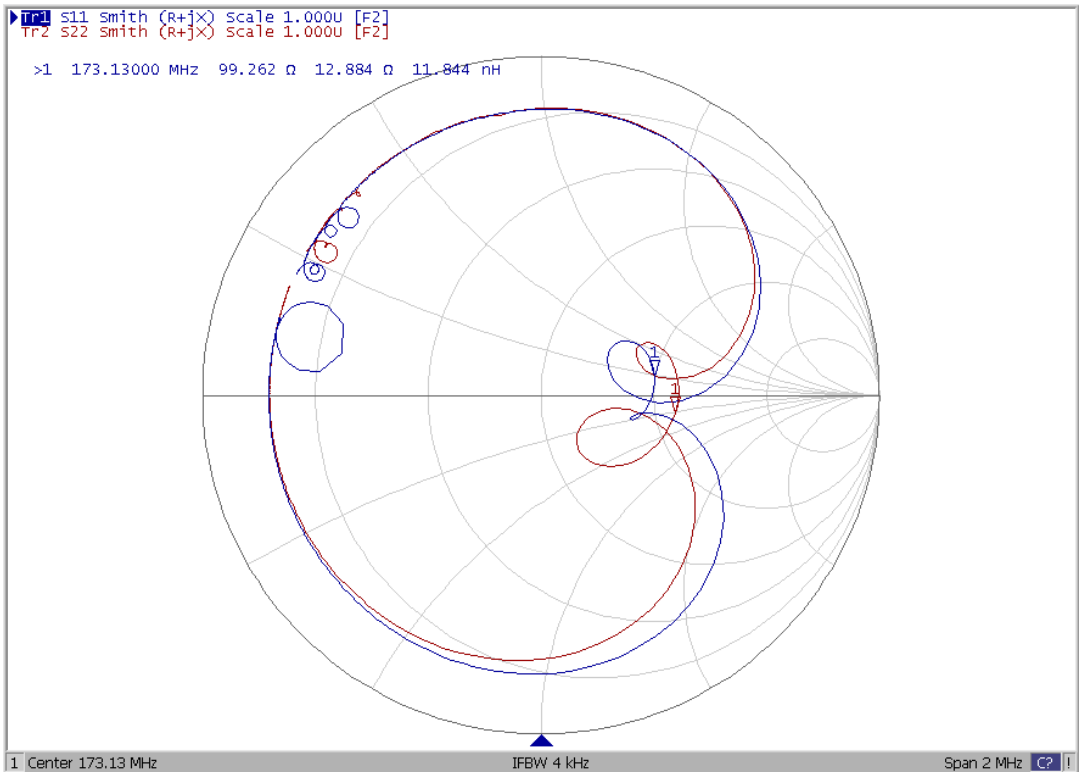
1. Wide band Response



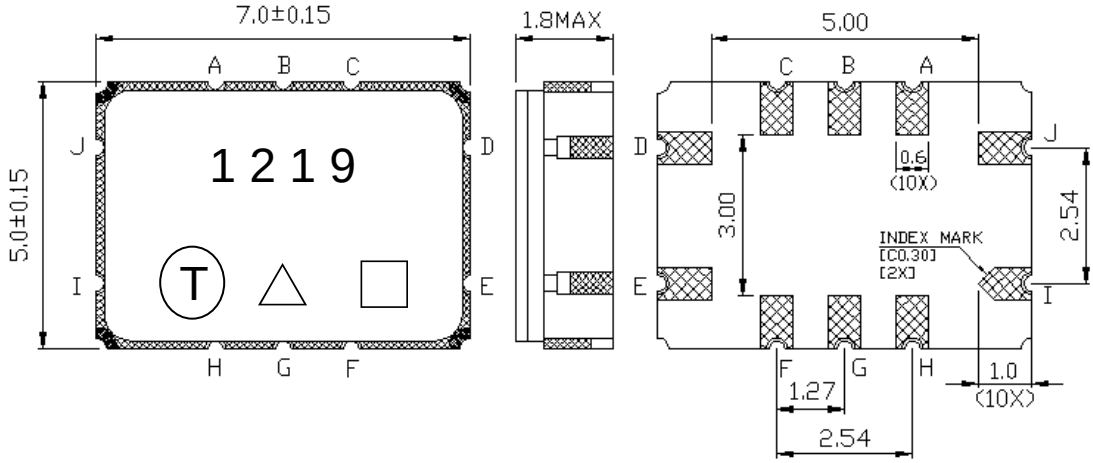
2. Pass Band Response and Group Time Delay Response:



(1) Smith Chart:



D. OUTLINE DRAWING:



#I : Input

#J : Input Ground

#D : Output

#E : Output Ground

#A,B,C,F,G,H : Ground

□: Week Code

Unit: mm

△ : Product / Year Code

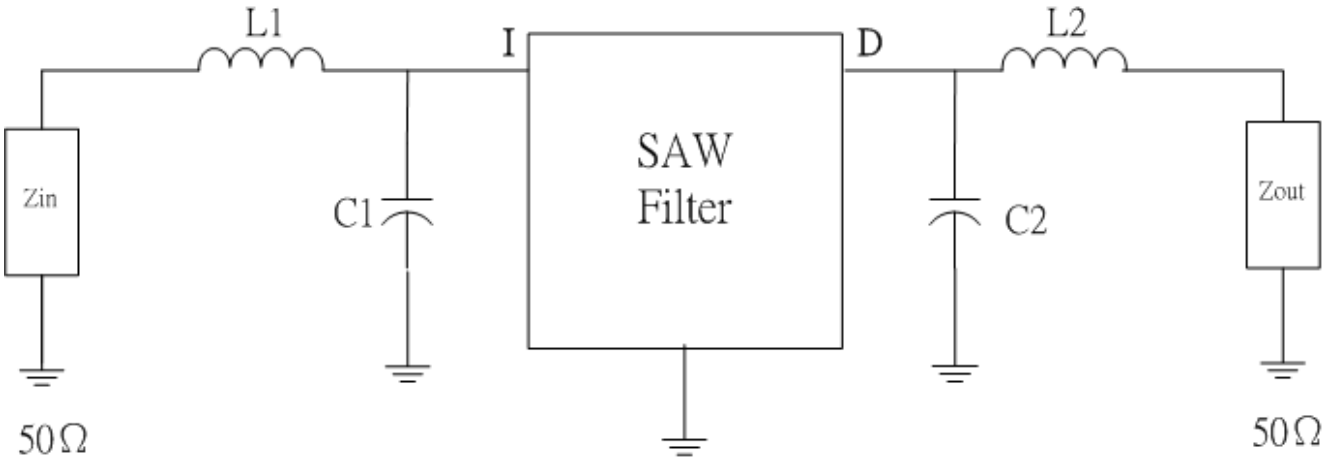
Product / Year Code

Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	B	b

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

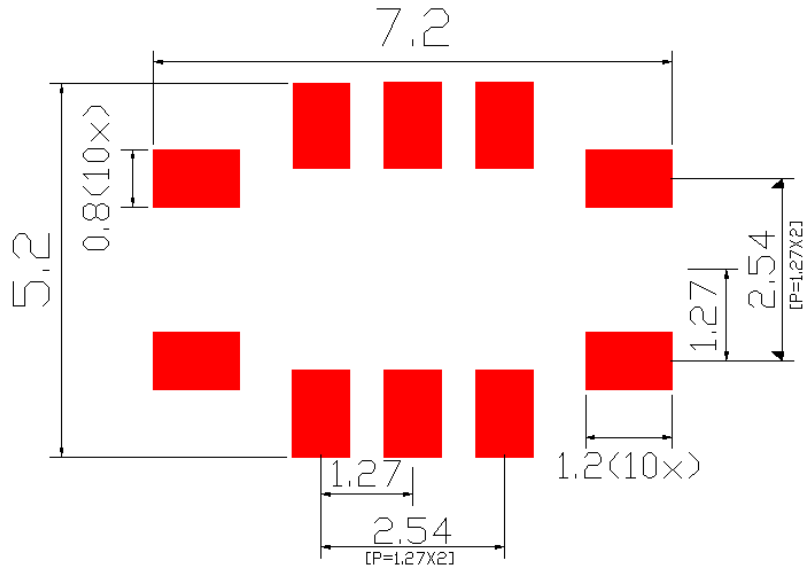
E. MATCHING CIRCUIT:



L1=180nH L2=180nH C1=1pF C2=1pF

.

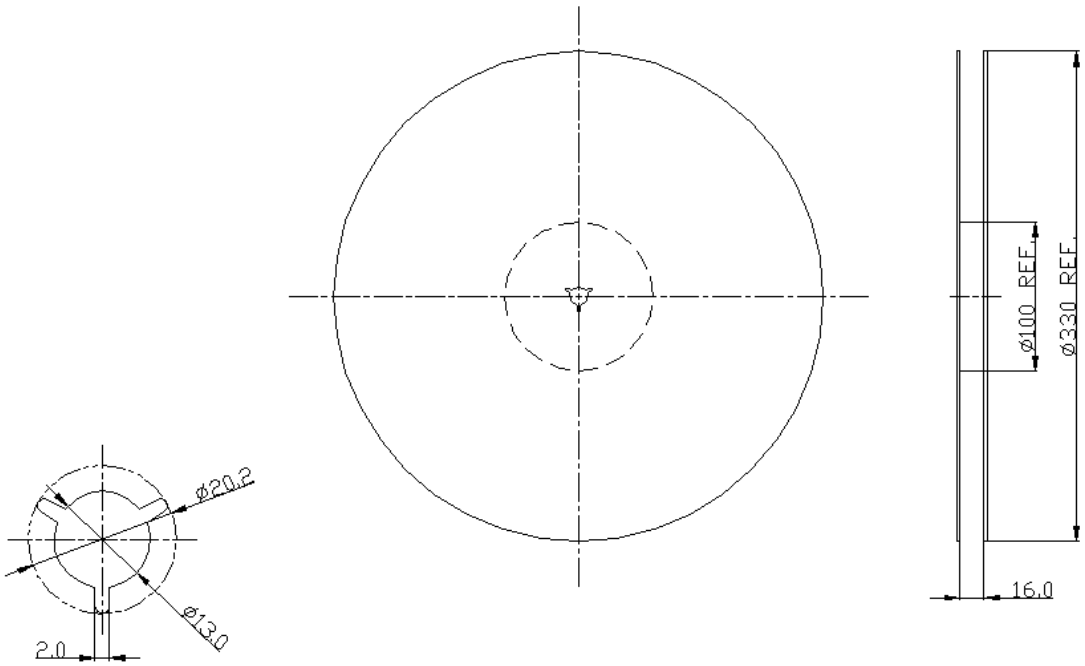
F. PCB FOOTPRINT:



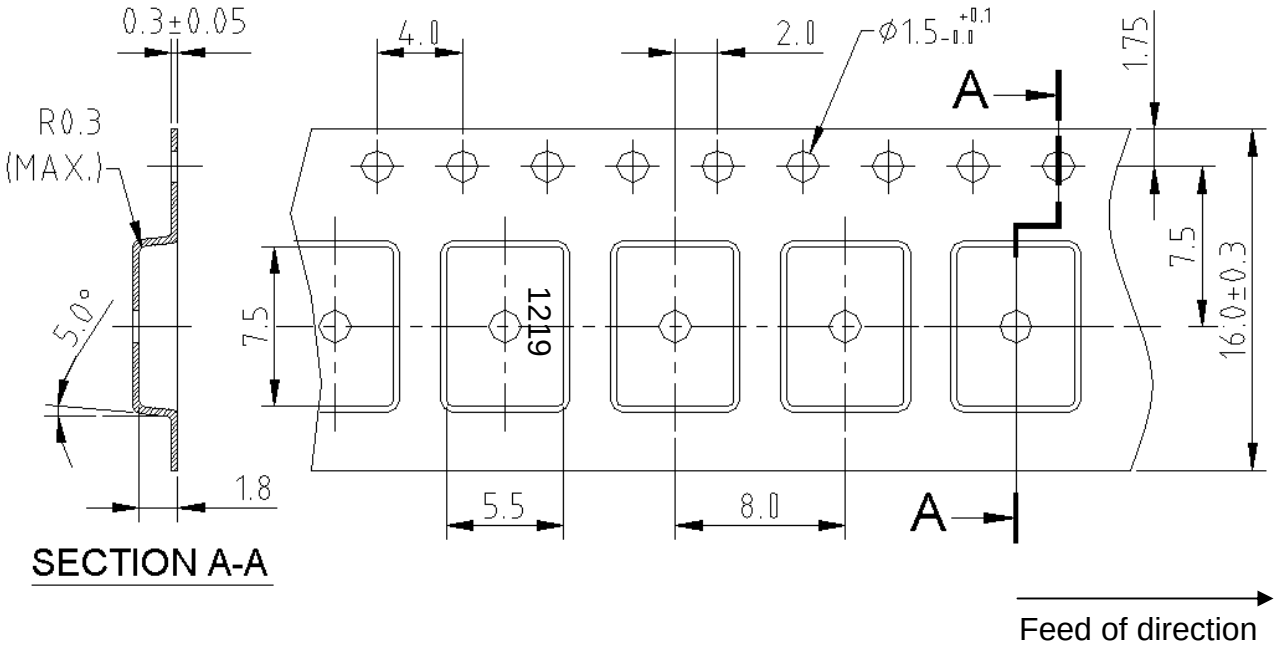
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.

