



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 319.3MHz 2MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Parts No.:TA1731A

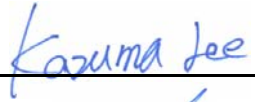
Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma Lee 

Approval by:_____ Bob Chau 

Date:_____ 04 / 25/ 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.



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SAW Filter 319.3 MHz

MODEL NO.:TA1731A

Rev No.1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	319.3	-
Insertion Loss 318.3~320.3MHz IL	dB	-	1.66	2.5
Amplitude ripple 318.3~320.3MHz	dB	-	0.26	1.5
VSWR (318.3~320.3MHz)		-	1.24	2.5
Attenuation (Reference level from 0dB)				
274.300 ~ 290.300 MHz	dB	50	62	-
297.300 ~ 298.200 MHz	dB	50	72	-
308.300 ~ 308.900 MHz	dB	46	61	-
329.700 ~ 330.300 MHz	dB	22	32	-
340.400 ~ 341.300 MHz	dB	36	47	-
361.800 ~ 363.000 MHz	dB	48	60	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

C. Frequency Characteristics :

(1) Pass band Response:

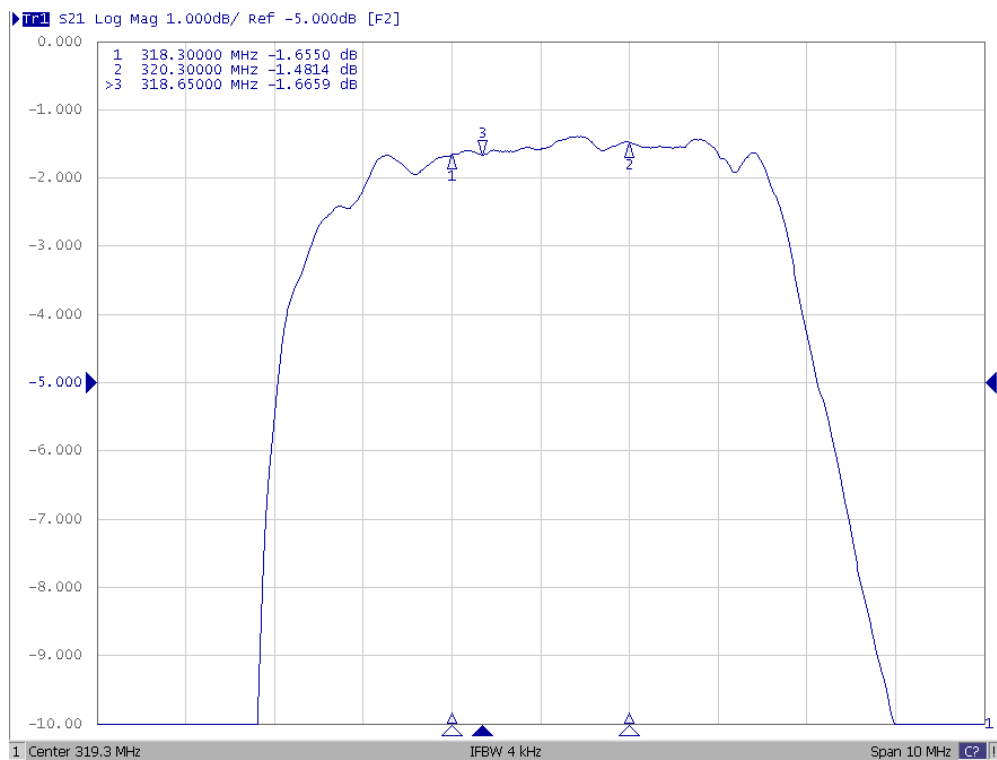


Fig1. Horizontal: 1MHz/Div Vertical: 1dB/Div

(2) Wide band Response:

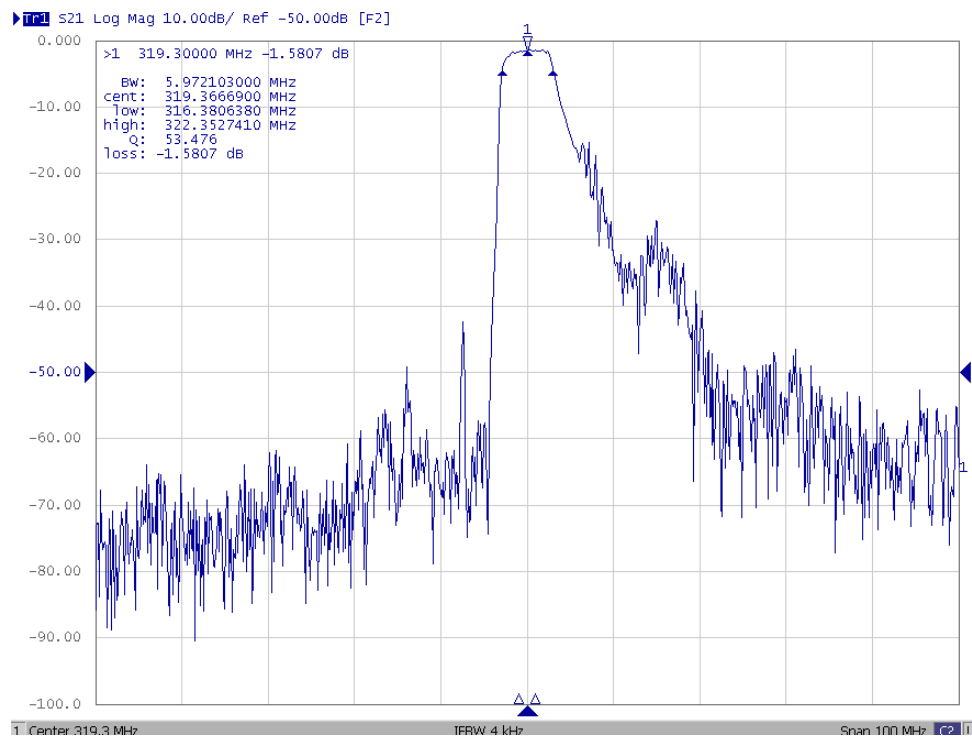


Fig2. Horizontal: 10MHz/Div Vertical: 10dB/Div

(3) VSWR:

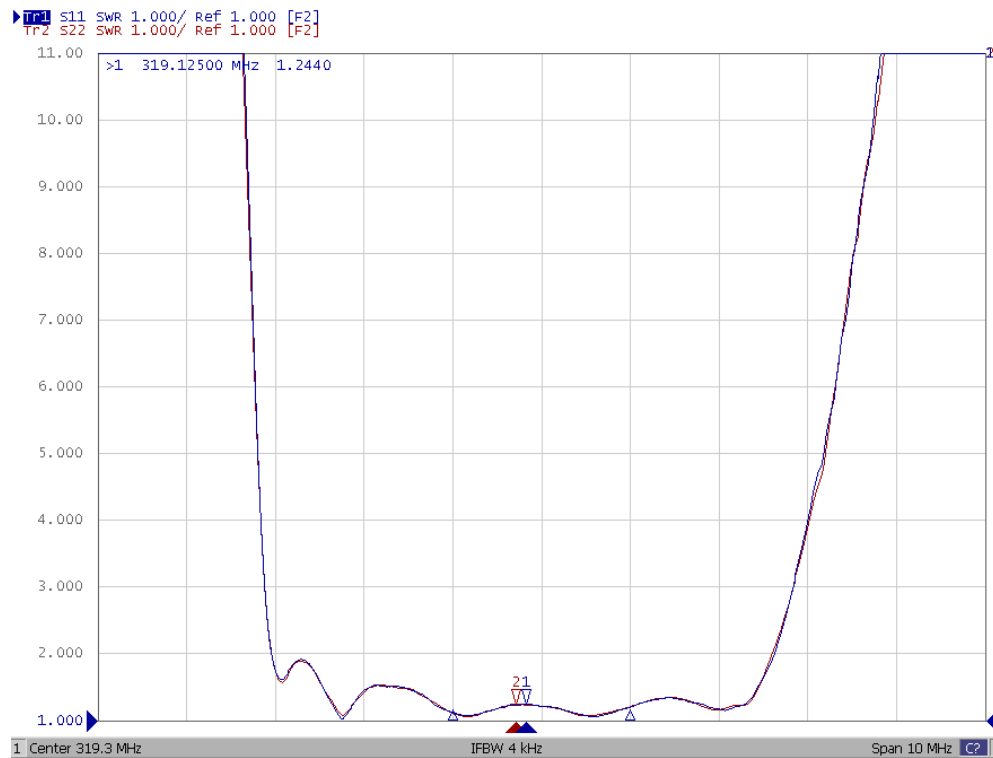
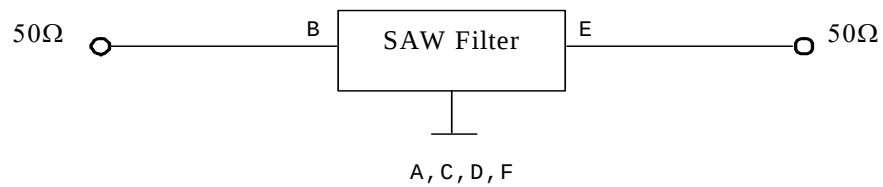


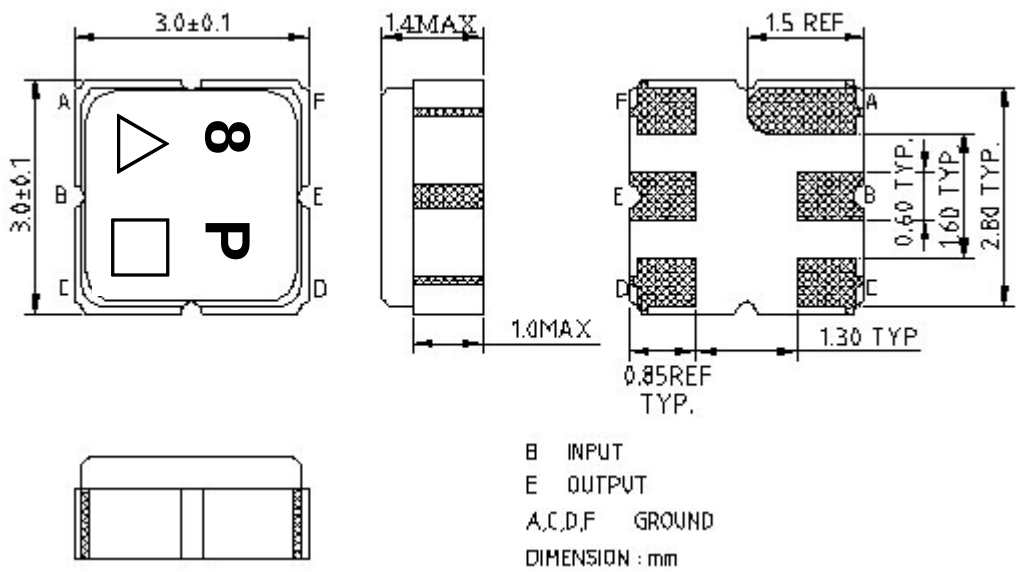
Fig3. Horizontal: 1MHz/Div Vertical: 1/Div

D. MEASUREMENT CIRCUIT:

HP Network analyzer



E.OUTLINE DRAWING:



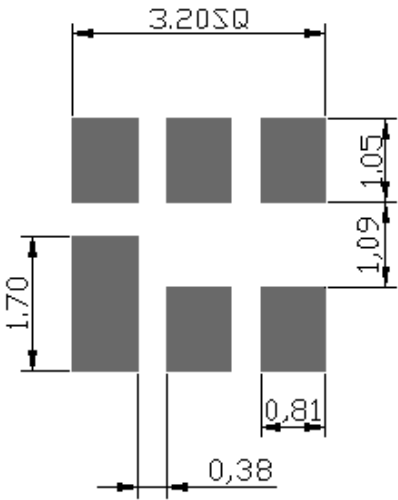
Product / Year Code

Year	2014	2015	2016	...	2020	2021	2022	2023	2024	...
Code	4	5	6	...	0	1	2	3	4	...

Week Code

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:



1. REEL DIMENSION

Technical drawing of a circular component. The main view shows a large circle with a central hole. A dashed circle indicates the hole's position. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right, a vertical dimension line indicates a distance of "12 TYP." from the bottom edge to the center of the hole. Below the main view, a detailed view of the hole is shown, labeled "A". It features a central hole with a diameter of $\phi 13.0 \pm 0.17 \pm 0.2$ and a surrounding ring with a thickness of 20 ± 0.5 . The hole is surrounded by a dashed circle with a diameter of $\phi 30.2 \pm 0.17$.

0.3±0.05

2.0±0.05

4.0±0.05

+0.1
-0.0

A

1.75

12.0±0.3

5.5±0.05

R0.3 (MAX.)

3.35±0.1

8

3.35±0.1

8.0±0.05

B

A

R0.5 (TYP.)

1.4±0.1

SECTION A-A

SECTION B-B

ø1.50.1

DIMENSION : mm

Direction of Feed

H. RECOMMENDED REFLOW PROFILE :

