



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: 326.4 MHz 17MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0191A

Customer Parts No.: _____

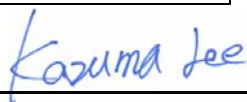
Customer signature required

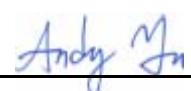
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Andy Yu 

Date: _____ 03 / 09 / 2021

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 326.4MHz (SMD 7×5 mm)

MODEL NO.: TB0191A

Rev. No. 3

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operate Temperature: -30°C to 80°C
3. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

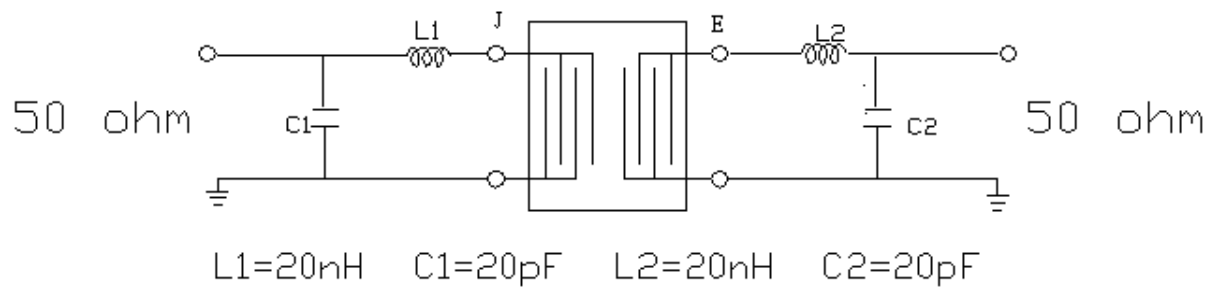
Lead-free soldering

Electrostatic Sensitive Device

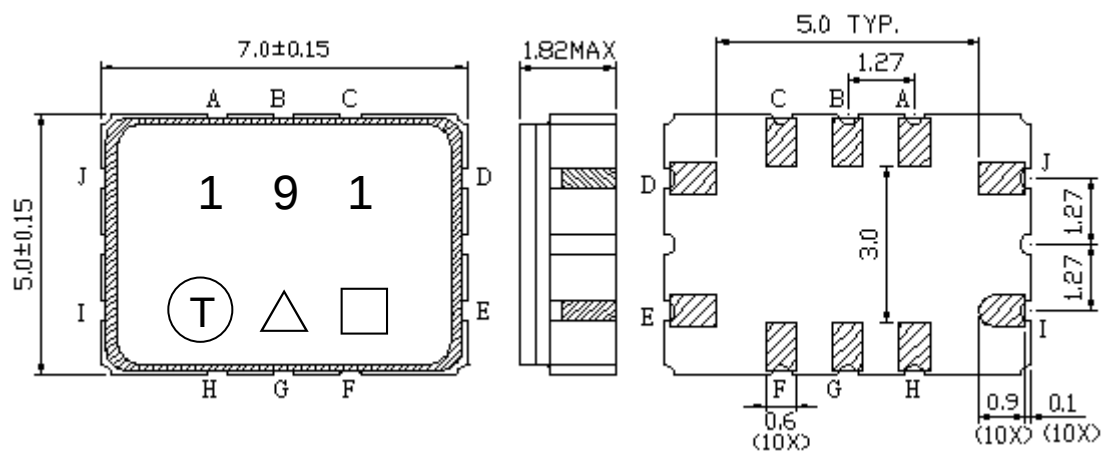
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	TST	Max.
Center frequency, F_c	MHz	-	326.4	-
Minimum Insertion Loss, IL	dB	-	12	17
2dB Lower Frequency	MHz	-	318.2	318.9
2dB Upper Frequency	MHz	333.9	335.0	-
2dB Bandwidth	MHz	15	16.8	-
40dB Lower Frequency	MHz	313.9	315.7	-
40dB Upper Frequency	MHz	-	338.0	338.9
40 dB Bandwidth	MHz	-	22.3	-
Input VSWR (318.9-333.9MHz)	-	-	1.3	2
Output VSWR (318.9-333.9MHz)	-	-	1.67	2
Group Delay ripple (318.9-333.9MHz)	nS	-	60	100
Amplitude ripple (323.9-328.9MHz)	dB	-	0.5	1
Attenuation:(Reference level from Min IL)				
10~276.4MHz	dB	50	60	-
276.4MHz~306.4MHz	dB	45	53	-
346.4MHz~376.4MHz	dB	45	56	-
376.4MHz~450MHz	dB	50	64	-

C. TEST Circuit:



D. OUTLINE DRAWING:



- Pin J: Unbalanced Input
- Pin E: Unbalanced Output
- Others: To be Ground
- : Week Code
- △ : Product / Year Code
- Unit: mm

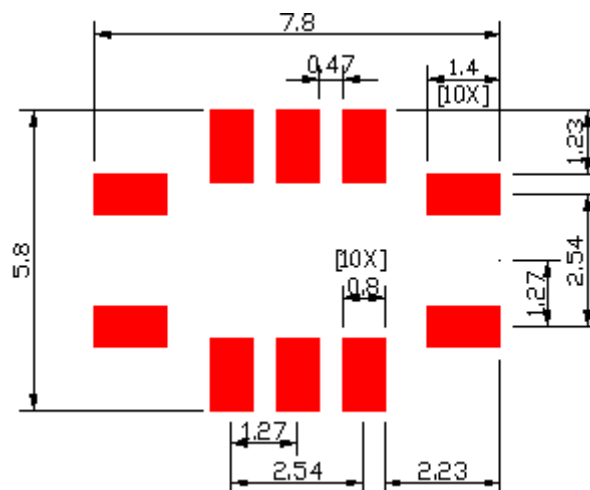
Product / Year Code: 4-year cycle

Year	2021 2025	2022 2026	2023 2027	2024 2028
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

E. PCB FOOTPRINT:



F.FREQUENCY CHRACTERISTICS:

(1) wide band of Response:

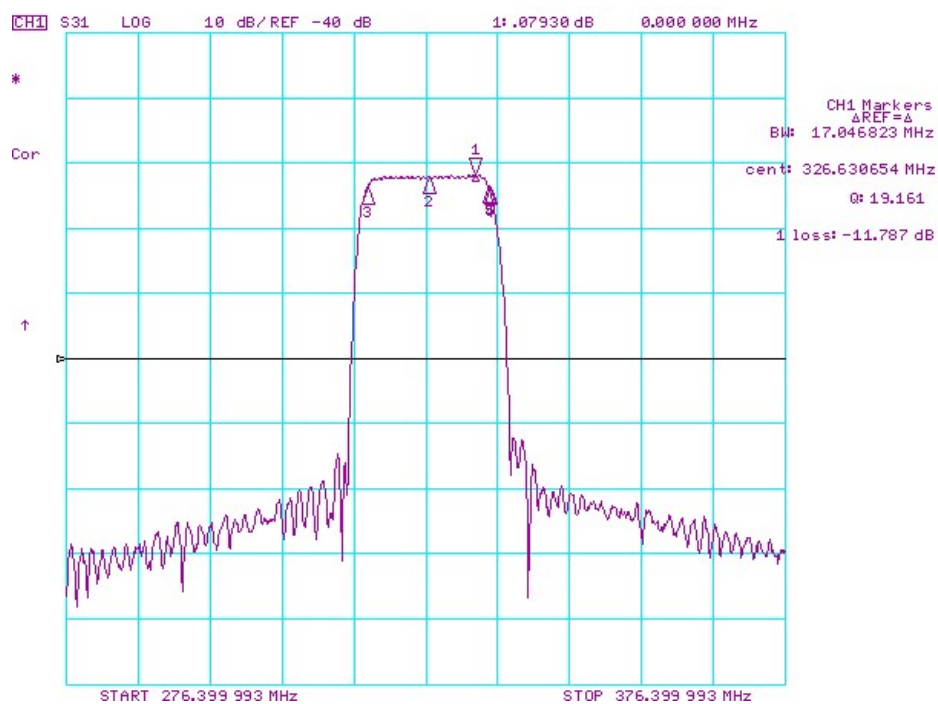


Fig-1 S21 Response Horizontal: 10MHz/Div Vertical: 10dB/Div

(2) Passband of Response:

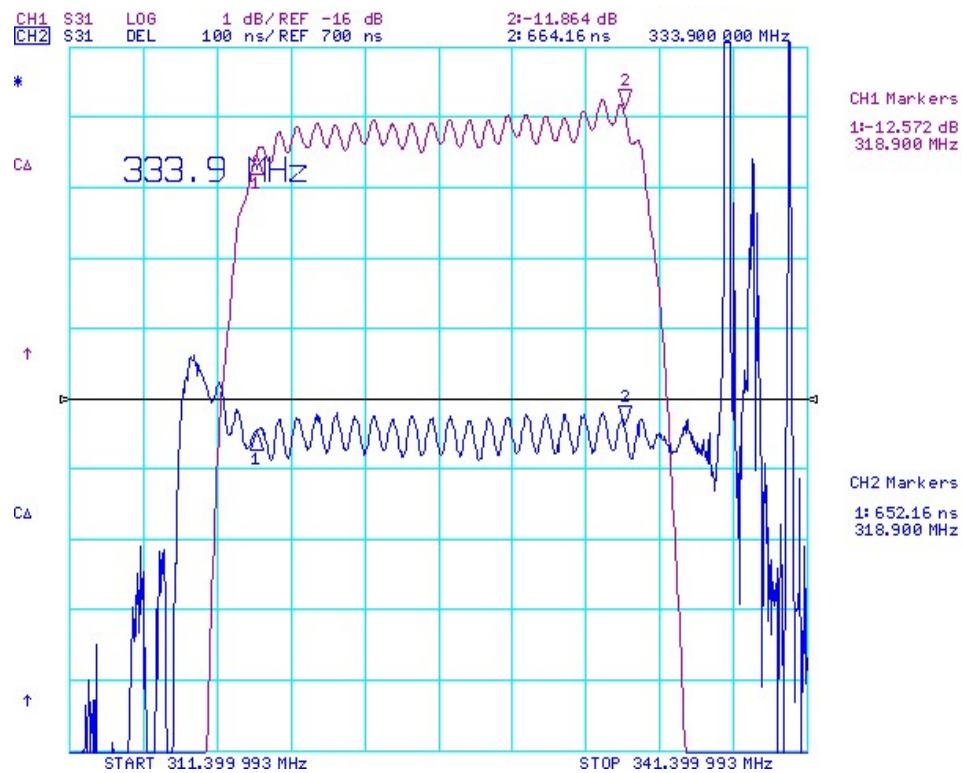
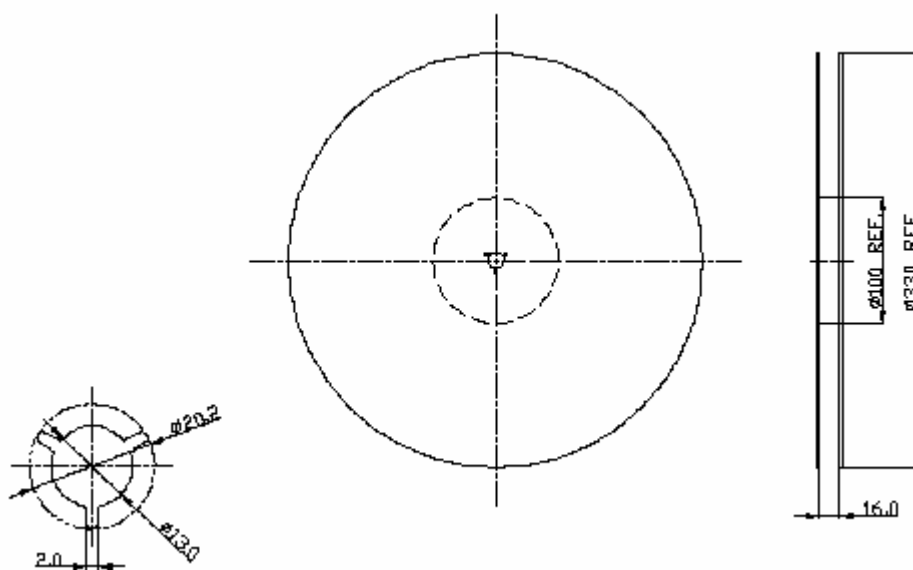


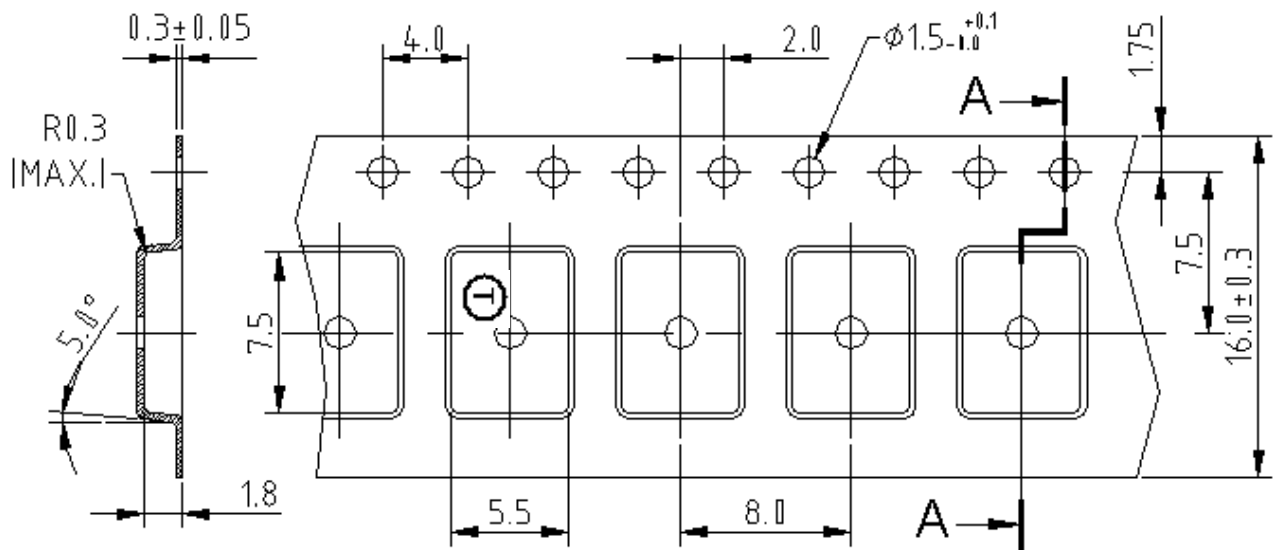
Fig-2 S21 Response Horizontal: 3MHz/Div Vertical: 1dB/Div
 100ns/Div

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 $260^\circ\text{C} \pm 0/-5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.

