



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 350MHz 2.6MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB0200A

Customer Parts No.: _____

Customer signature required

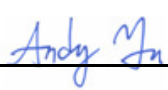
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ V.J Fanchian 

Approval by: _____ Andy Yu 

Date: _____ 05 / 25 / 2020

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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350 MHz IF SAW Filter (SMD 13.3×6.5 mm)

Model No.: TB0200A

Rev. No.:5.0

A. Maximum Rating:

1. Input Power Level: +20 dB_m
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to 85 °C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. Electrical Characteristics:

Ambient Temperature: 25°C

Parameter	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	349.9	350	350.1
Insertion Loss, IL	dB	-	13.5	14.5
0.5dB Bandwidth	MHz	1.7	1.96	-
3dB Bandwidth	MHz	2.6	2.65	-
20dB Bandwidth	MHz	-	3.8	4
45dB Bandwidth	MHz	-	4.4	6
Amplitude ripple within ±0.85 MHz	dB	-	0.4	0.7
Group Delay ripple within ±1.1 MHz	nsec	-	35	70
Substrate Material	-	-	Quartz	-
Temperature Coefficient of frequency	ppm/ K	-	$\Delta F/F = -[(T-T_0)/5.4]^2$	-

C. Frequency Characteristics:

(1) Frequency Response



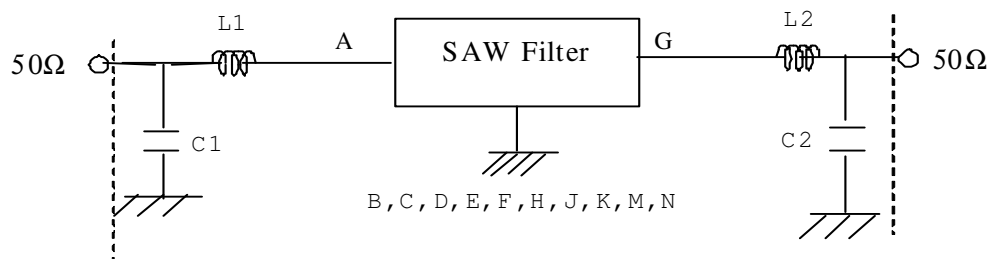
(2) Passband response and Group Delay Variation



D. Measurement Circuit:

Source and load impedance: $50\ \Omega$

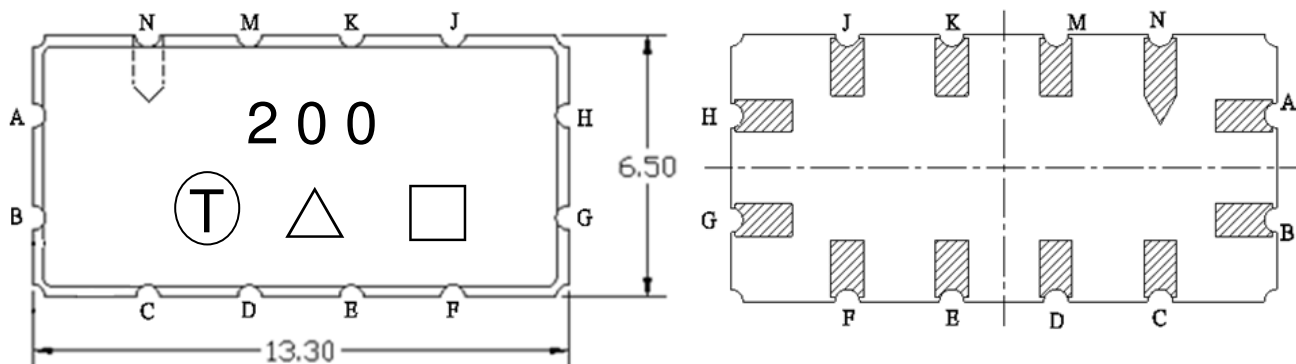
Network analyzer



Input: $L1=15\text{nH}$, $Q>40$; $C1=27\text{ pF}$

Output: $L2=15\text{nH}$, $Q>40$; $C2=27\text{ pF}$

E. Outline Drawing:



#A: Input

#G: Output

Others: Ground

Unit: mm

□: Week Code

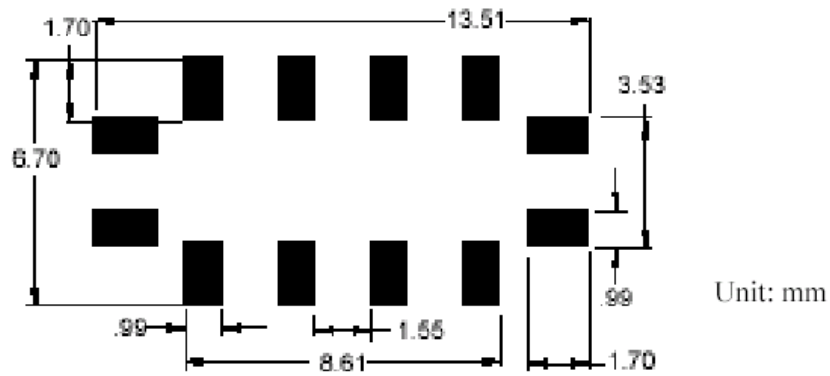
△: Product / Year Code

Year	2017 2021	2018 2022	2019 2023	2020 2024
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

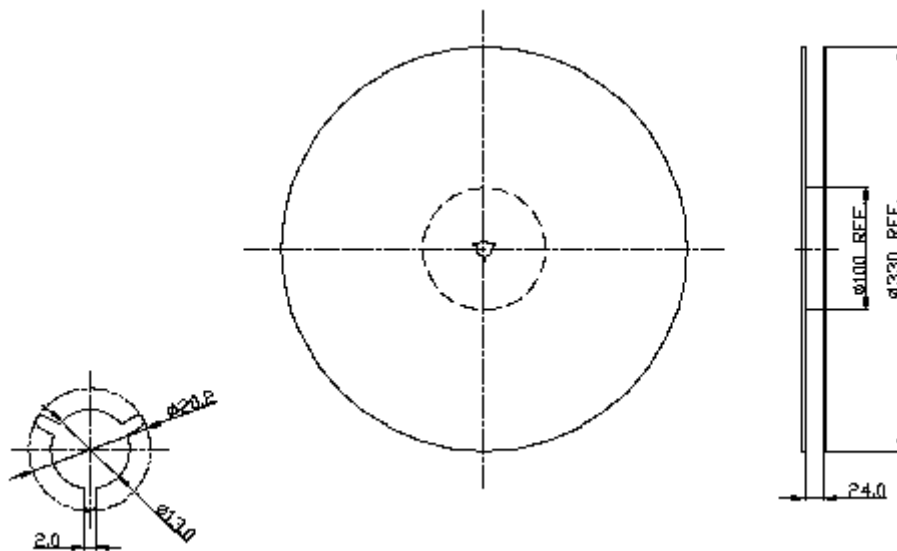
F. PCB FOOTPRINT:



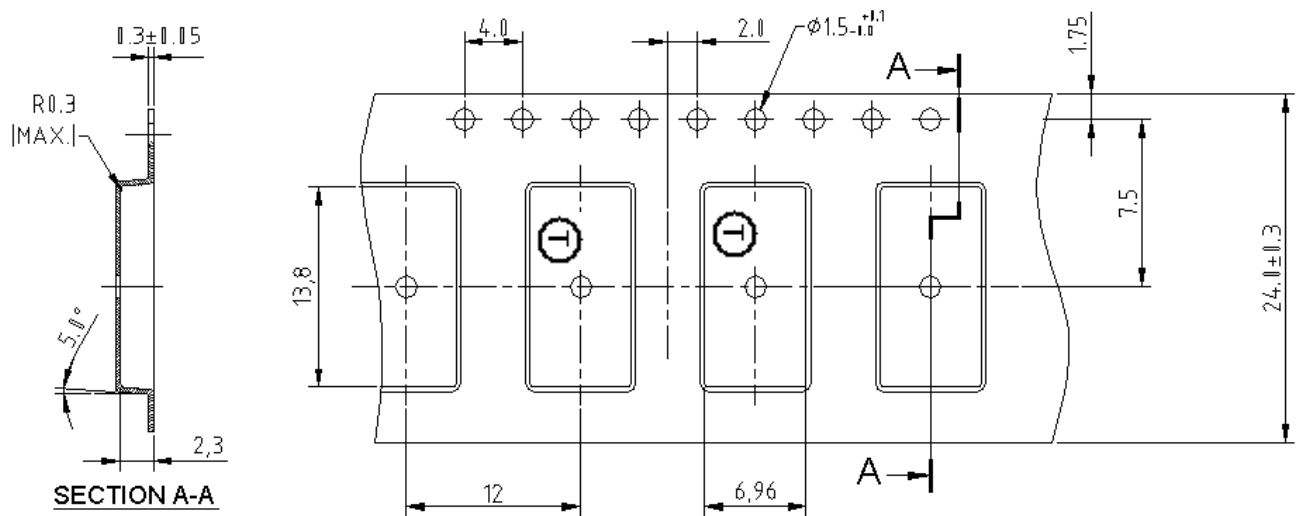
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

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

