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: tstsales3@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: 473.4MHz 28MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0160A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma Lee Kazuma Lee _____

Approval by:_____ Andy Yu Andy Yu _____

Date:_____ 06 / 12 / 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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SAW Filter 473.4MHz (SMD 5×7 mm)
MODEL NO.: TB0160A REV. NO.:5

RoHS Compliant
Lead-free soldering

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

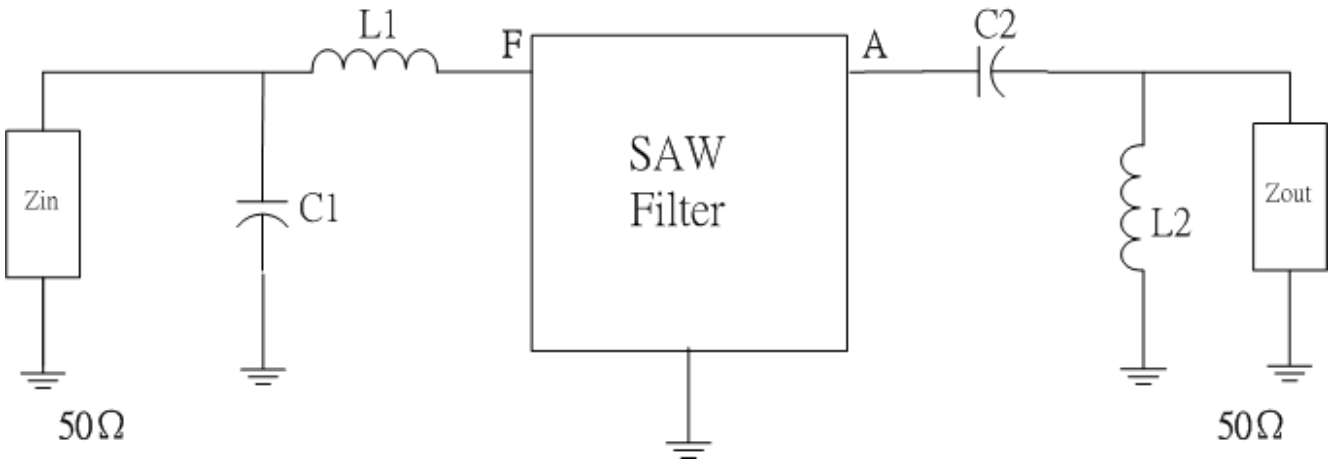
A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -40℃ to 70℃
3. Storage Temperature: -40℃ to 70℃
4. Moisture Sensitivity Level: Level 1(MSL1)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, **Fc**	MHz	-	473.4	-	
Insertion Loss, **IL**	dB	-	9.7	13	
Passband width, **BW3**	MHz	-	28	-	
Amplitude Ripple (462MHz~483.75MHz)	dB	-	0.8	1.2	
Group delay ripple (462MHz~483.75MHz)	nS	-	45	70	
Triple transit suppression	dB	-	40	-	
Attenuation:(Reference level from Min IL)					
275 to 440 MHz	dB	40	55	-	
440 to 452.6 MHz	dB	40	47	-	
498 to 675 MHz	dB	40	41	-	

C. MEASUREMENT CIRCUIT:



L1=8nH L2=12nH C1=12pF C2=10pF

D.FREQUENCY CHRACTERISTICS:

(1) wide band of Response:

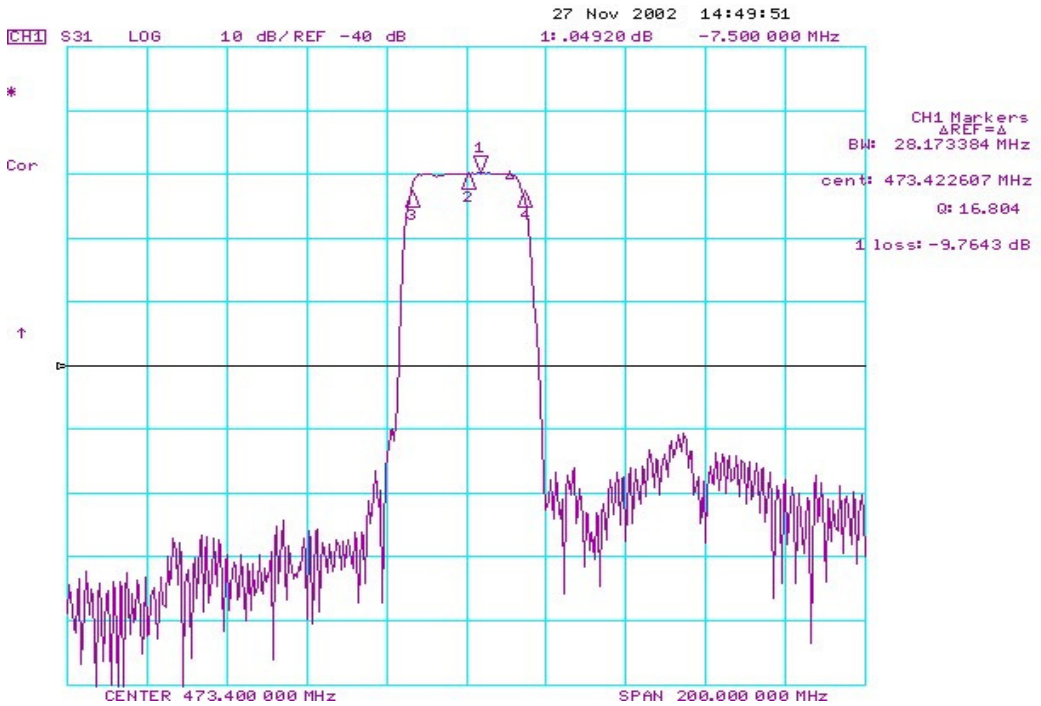


Fig-1 S21 Response Horizontal: 20MHz/Div
Vertical: 10dB/Div

(2) Passband of Response:

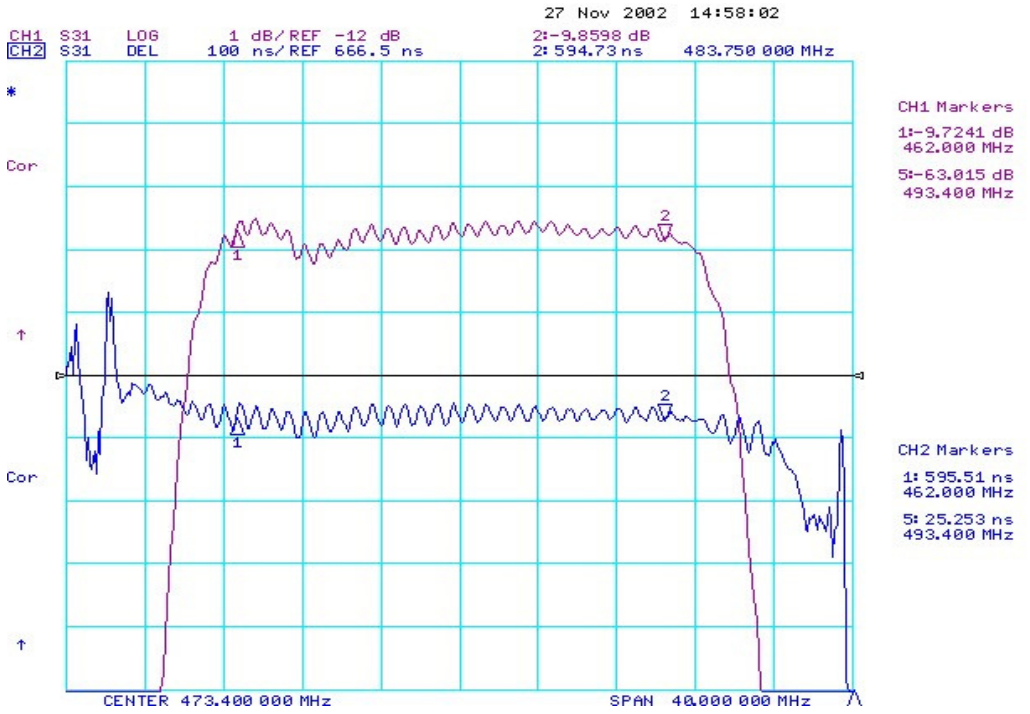
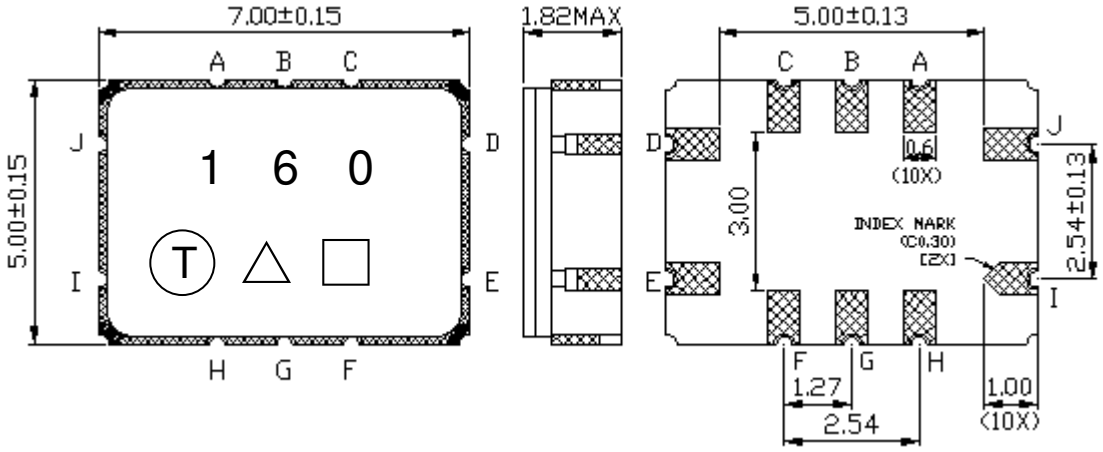


Fig-2 Group Delay and Ripple, Horizontal:4MHz/Div
Vertical: 1 dB/Div Vertical: 100nS/Div

F.OUTLINE DRAWING:



Pin F: Unbalanced Input or Balanced Input
Pin E: Unbalanced Input Ground or Balanced Input
Pin A: Unbalanced Output or Balanced Output
Pin J: Unbalanced Output Ground or Balanced Output
Others: To be Ground
Unit: mm

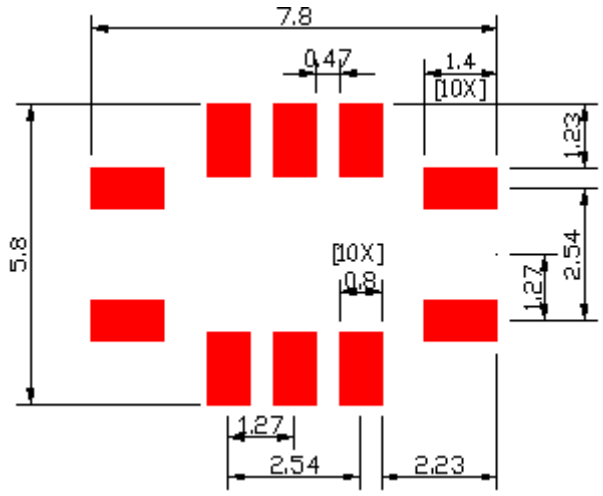
△: Product / Year Code

Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	B	b

□: Week Code

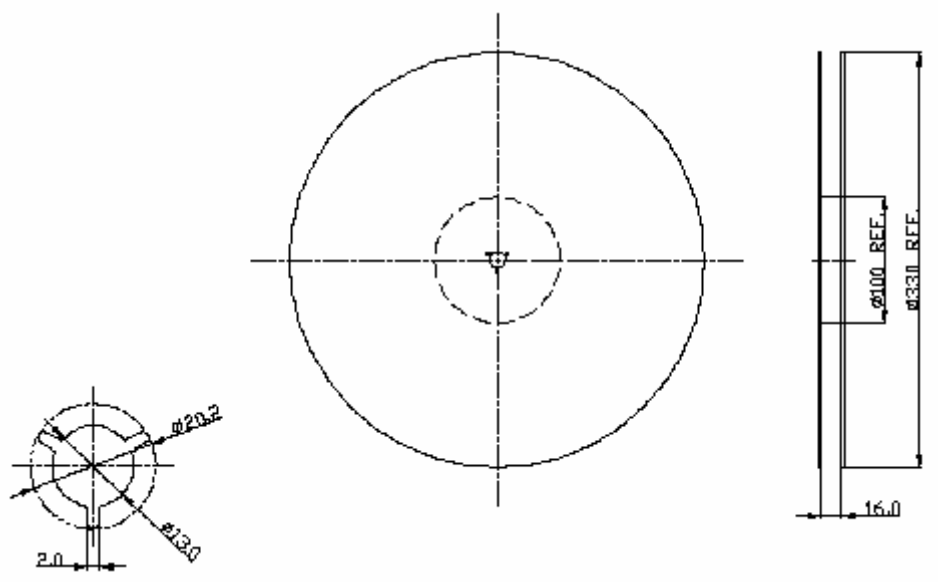
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F.PCB FOOTPRINT

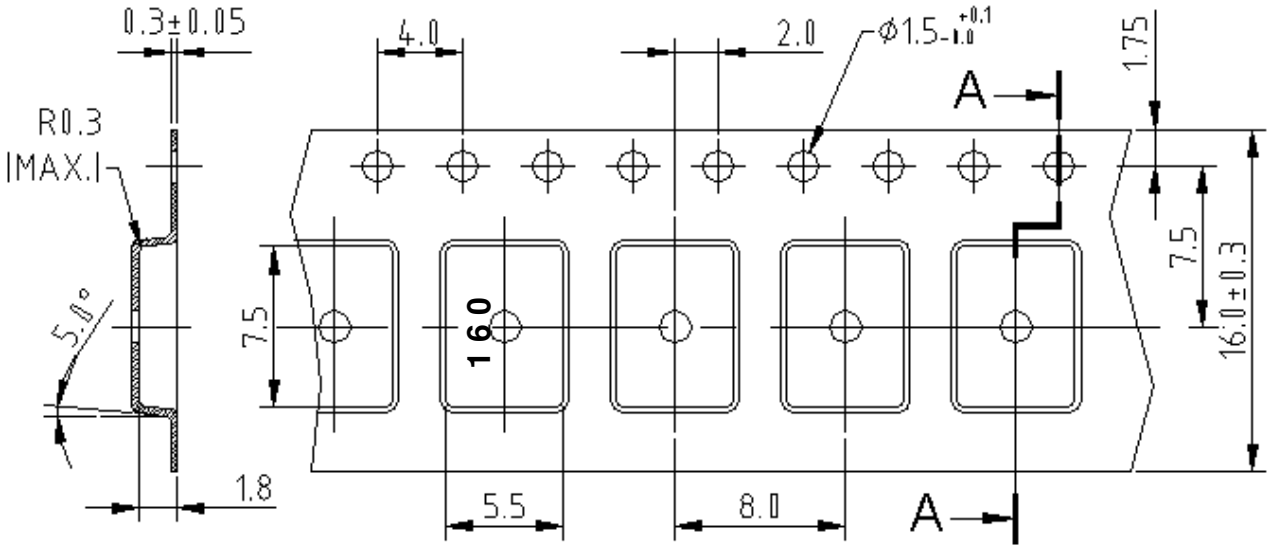


G. PACKING:

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.