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: SAW Filter 1176 MHz SMD 2.0×1.6 mm (BW=40 MHz)

TST Part No.: TA2499A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: David Chang

Approved by: Andy Yu

Date: 2020/02/18

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 1176 MHz

MODEL NO.: TA2499A REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m
2.DC voltage: 3 V
3.Operating Temperature: -40°C to +105°C
4.Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1(**MSL1**)

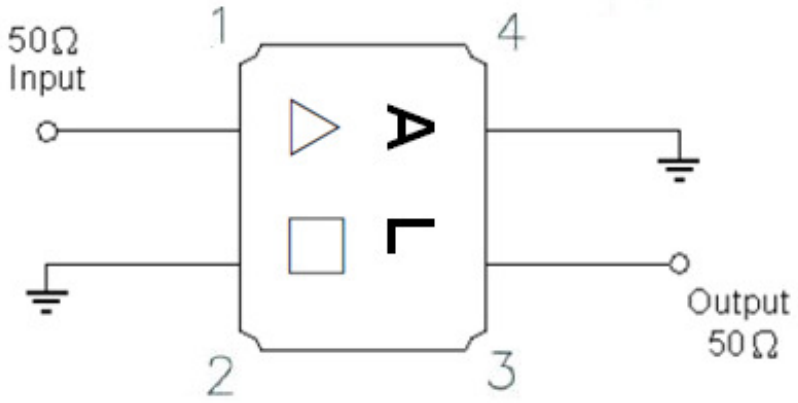
RoHS Compliant
Lead-free soldering

Electrostatic Sensitive Device (**ESD**)

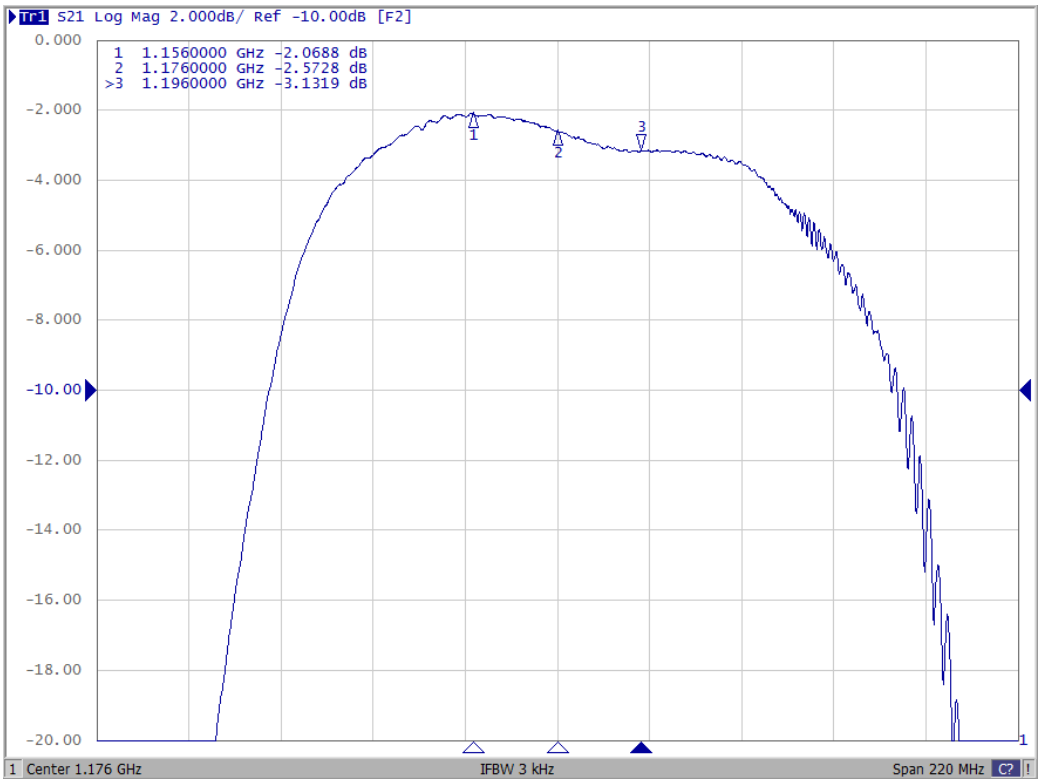
B. ELECTRICAL CHARACTERISTICS:

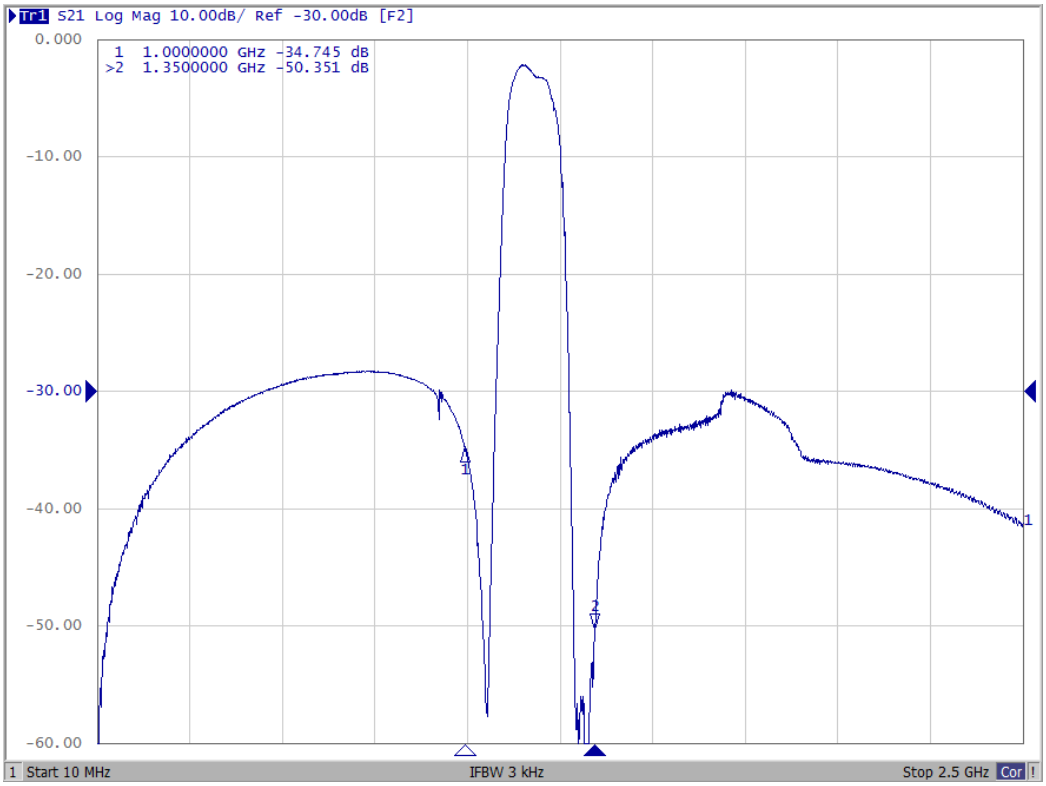
Item		Unit	Min.	Typ.	Max.	Note
Center frequency	**Fc**	MHz	-	1176	-	-
Insertion Loss (1156~1196 MHz)	**IL**	dB	-	3.2	3.8	-40~+85℃
Insertion Loss (1156~1196 MHz)	**IL**	dB	-	3.2	4.0	-40~+105℃
Group Delay Ripple (1156~1196 MHz)		ns	-	2	5.0	-
Return Loss_S11 (1156~1196 MHz)		dB	9.5	10	-	-
Attenuation (Reference level from 0 dB)						
DC ~ 920 MHz		dB	25	27	-	-
1350 ~ 1780 MHz		dB	28	30	-	-
1850 ~ 1910 MHz		dB	30	32	-	-
1920 ~ 1980 MHz		dB	30	32	-	-
2400 ~ 2500 MHz		dB	35	38	-	-
Temperature coefficient of frequency		ppm/k	-	-80	-	-

C. MEASUREMENT CIRCUIT:

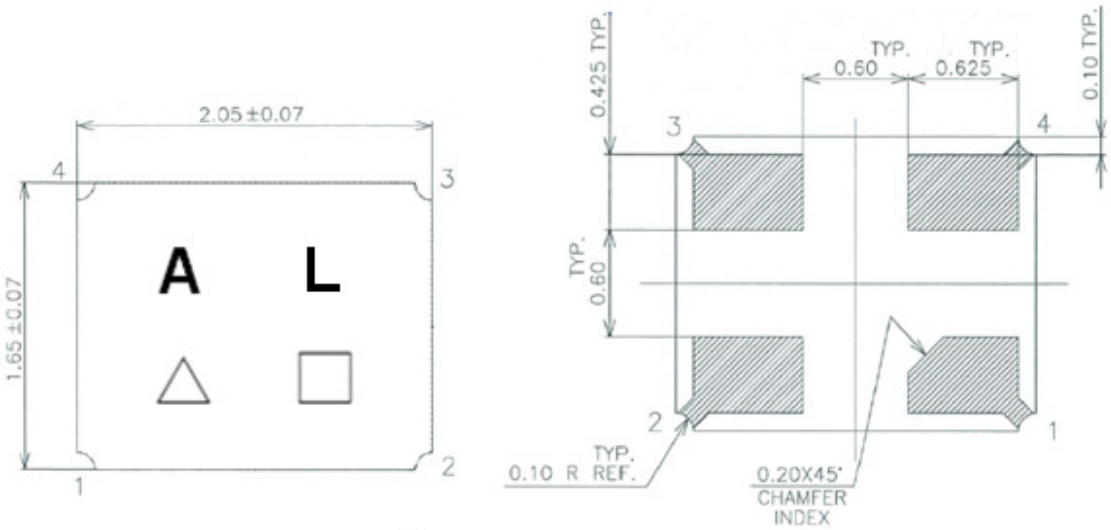


D. Frequency Characteristics:





E. OUTLINE DRAWING:



#1: Input
#3: Output
#2, 4: Ground
Unit: mm

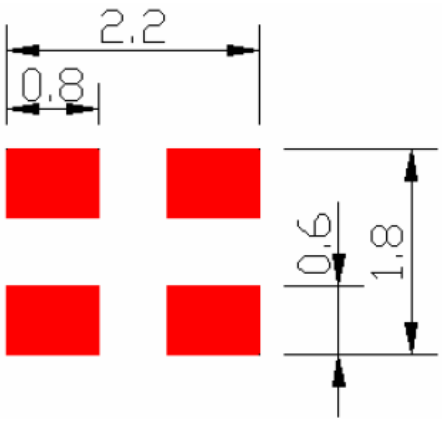
△: Year Code (2020->0, 2021->1,...,2029->9)

□: Date Code (Follow the table from planner each year)

Date 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

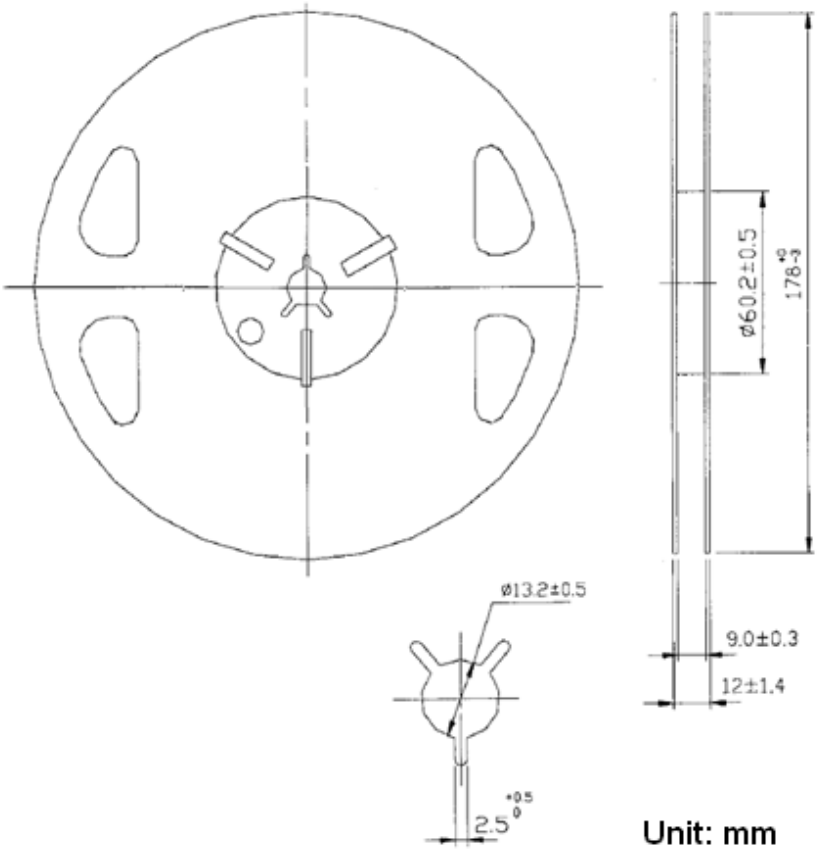
F. PCB Footprint:



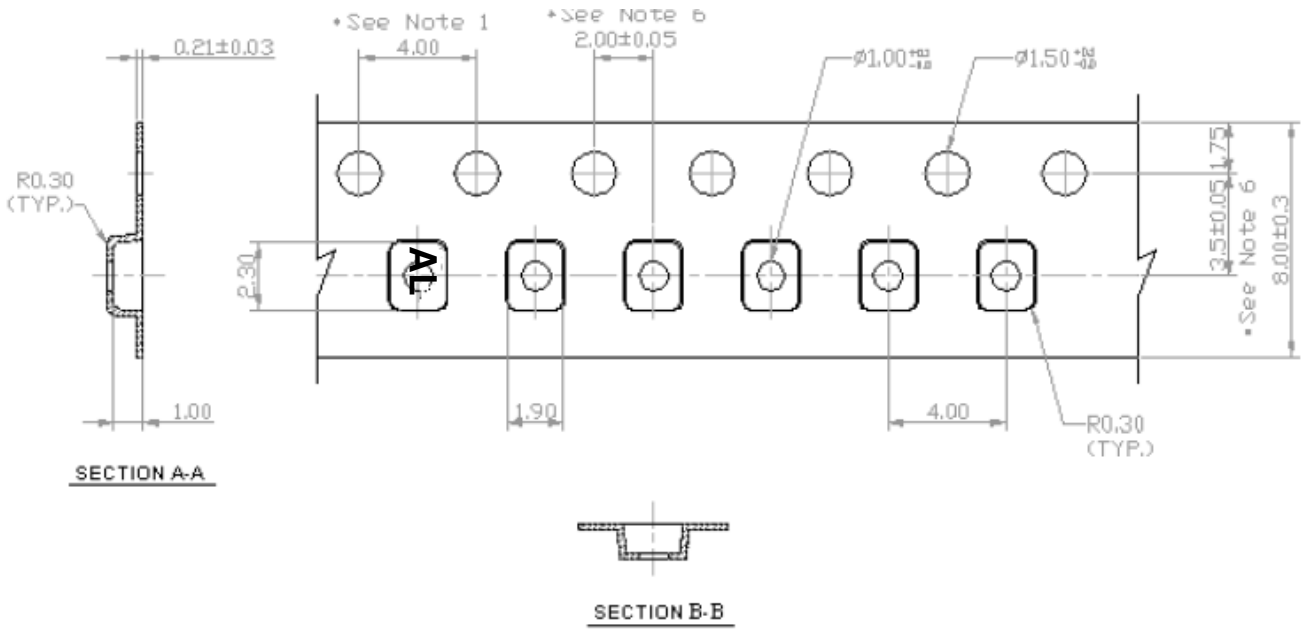
G. PACKING: (**Ref. WI-75M03**)

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.