



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

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Product Specifications Approval Sheet

Product Description: SAW Filter 1176.45 MHz SMD 3.0×3.0mm

TST Part No.: TA2493A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/10/30

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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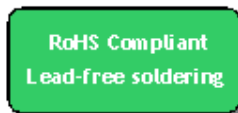
SAW Filter 1176.45 MHz SMD 3.0×3.0mm

MODEL NO.: TA2493A

REV. 2.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -55°C to +85°C
4. Storage Temperature: -55°C to +85°C
5. Moisture Sensitive Level: Level 1 (MSL1)



Electrostatic Sensitive Device (ESD)

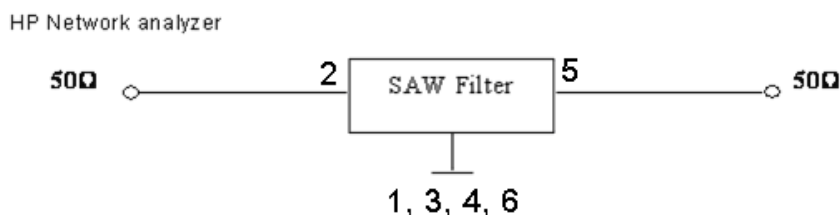
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

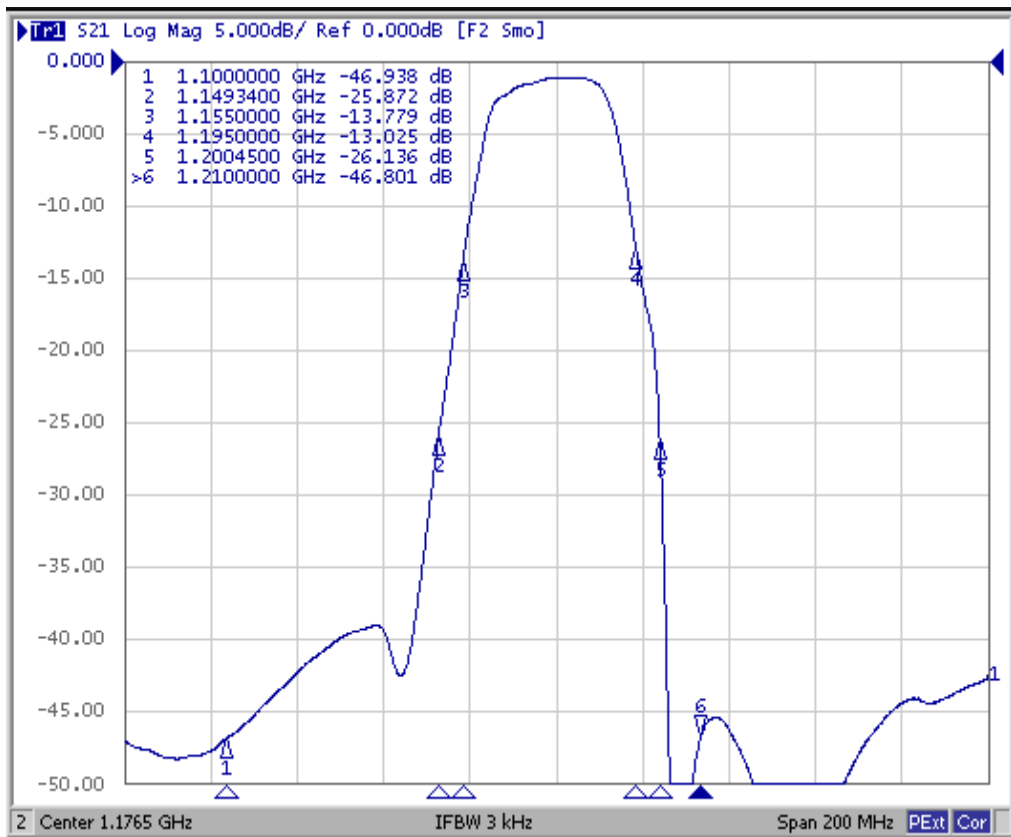
Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	1176.45	-
Insertion Loss (1166.23 ~ 1186.67 MHz)	dB	-	1.9	3.5
Amplitude Ripple (1166.23 ~ 1186.67 MHz)	dB	-	0.9	2.0
Group Delay Ripple (1166.23 ~ 1186.67 MHz)	ns	-	16	25
Attenuation				
10 ~ 1100 MHz	dB	25	37	-
1149.34 MHz	dB	20	26	-
1155 MHz	dB	10	14	-
1195 MHz	dB	5	13	-
1200.45 MHz	dB	15	26	-
1210 ~ 2000 MHz	dB	25	41	-

C. MEASUREMENT CIRCUIT:

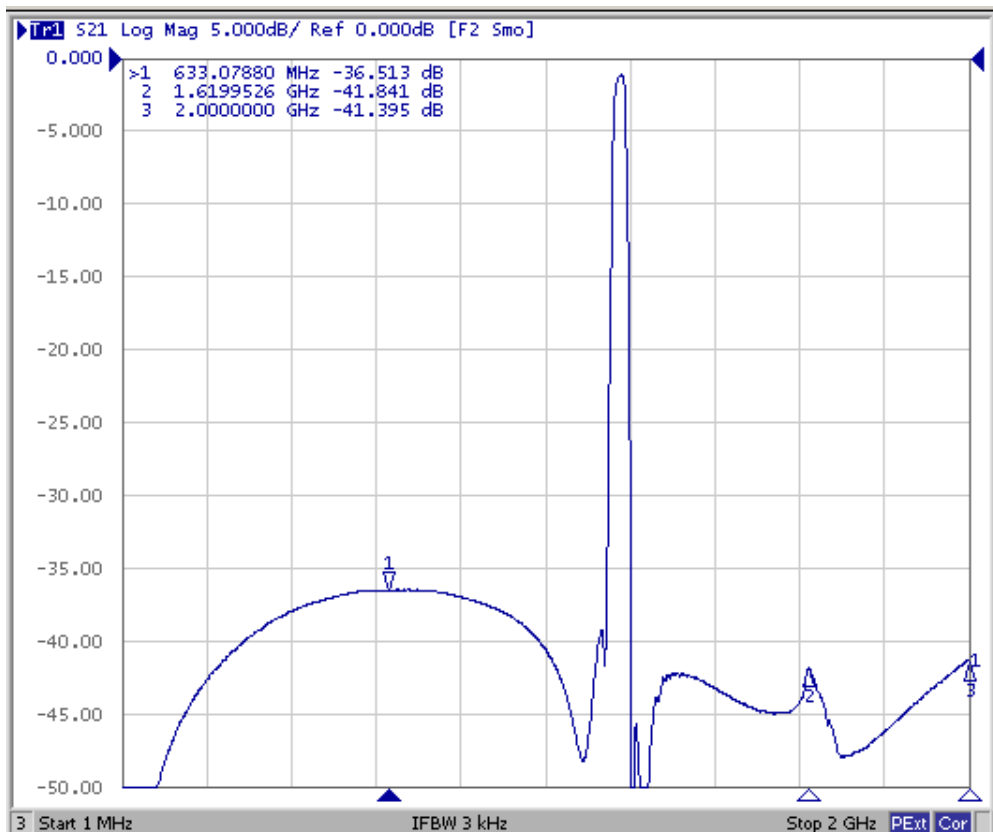


D. Frequency Characteristics:

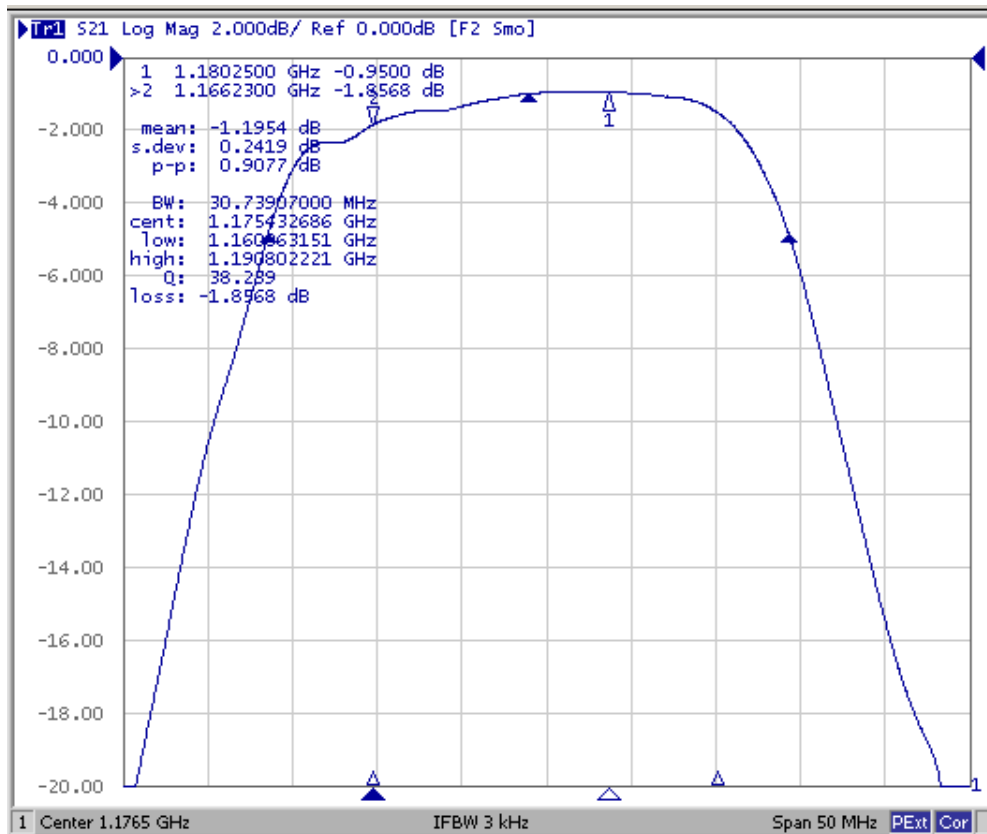
Span 200 MHz



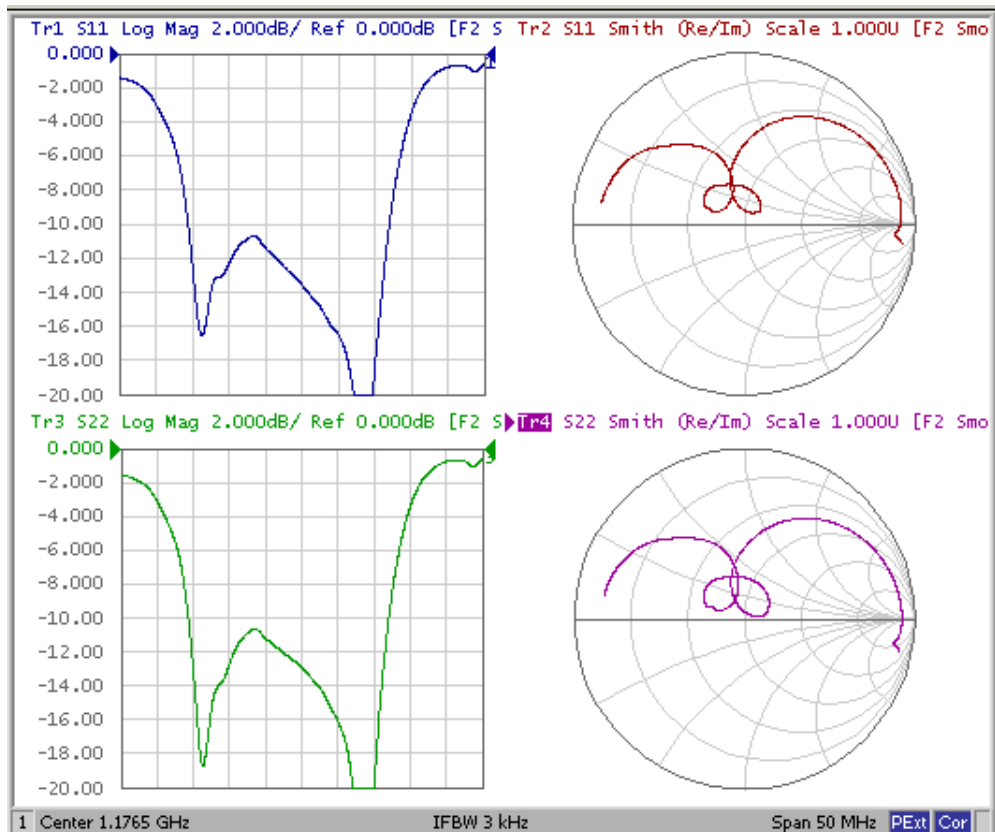
Span 2000 MHz



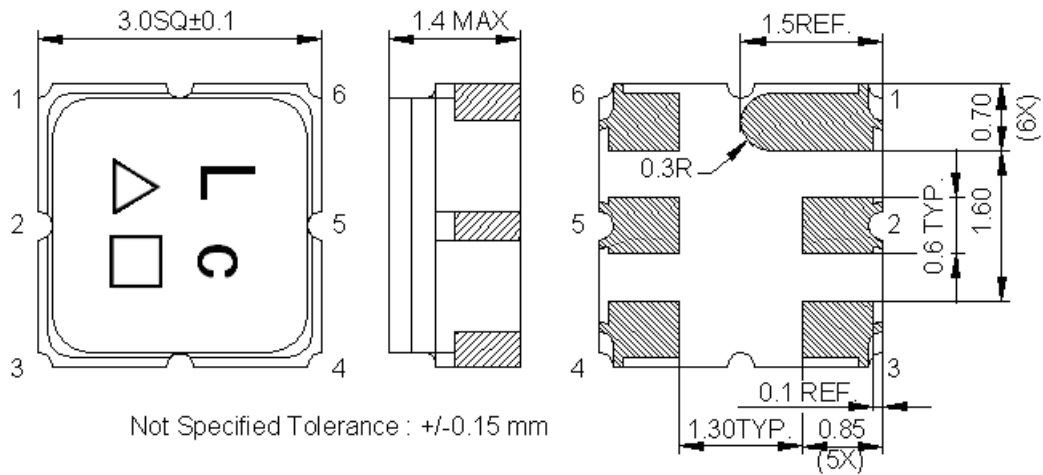
Span 50 MHz



Reflective characteristics



E. OUTLINE DRAWING:



#2: Input

#5: Output

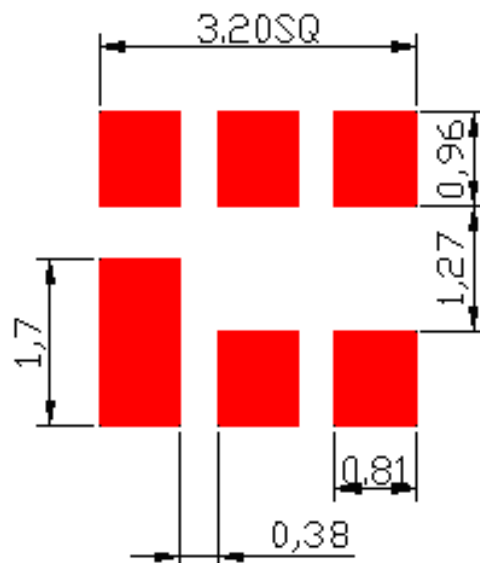
#1, 3, 4, 6: Ground

△ : Year Code (2009->9, 2010->0,..., 2018->8)

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

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:



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°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°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

