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Product Specifications Approval Sheet

Product Description: SAW File	ter 1176.45 MH	z (BW 20.44 MHz) \$	SMD 3.0×3.0mm
TST Part No.: TA2493B (AEC	C-Q200 Comp	liant)	
Customer Part No.:			
Customer signature required			
Company:			
Division:			
Approved by :			
Date:			
Checked by:	Sam Lin	JanLin	_
Approved by:	Andy Yu	Andy In	
Date:	2020/01/14		

- 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 (BW 20.44 MHz) SMD 3.0×3.0mm

MODEL NO.: TA2493B REV. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm

2. DC Voltage: 3 V

3. Operating Temperature: -40 °C to +105 °C

4. Storage Temperature: -40 °C to +105 °C 5. Moisture Sensitive Level: Level 1 (MSL1)

B. <u>ELECTRICAL CHARACTERISTICS</u>:

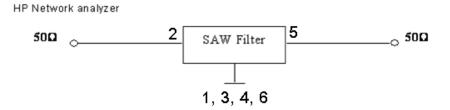
Terminating source impedance: $Zs = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

RoHS Compliant Lead-free soldering

Electrostatic Sensitive Device (ESD)

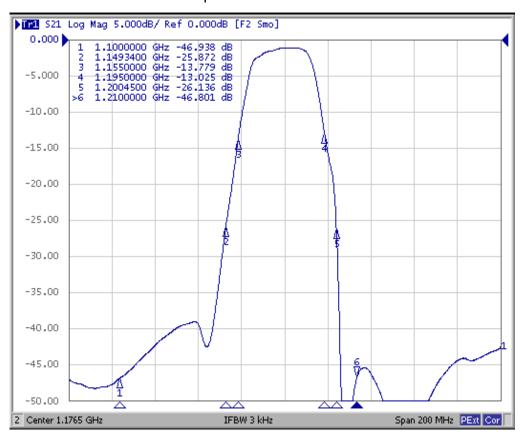
ltem	Unit	Min.	Тур.	Max.				
Center Frequency	MHz	-	1176.45	-				
Insertion Loss (1166.23 ~ 1186.67 MHz)	dB	1	1.9	4.0				
Amplitude Ripple (1166.23 ~ 1186.67 MHz)	dB	- 0.9		2.0				
Group Delay Ripple (1166.23 ~ 1186.67 MHz)	ns	1	16	25				
Attenuation								
10 ~ 1100 MHz	dB	25	37	-				
1149.34 MHz	dB	12	26	-				
1155 MHz	dB	4	14	-				
1195 MHz	dB	3	13	-				
1200.45 MHz	dB	12	26	-				
1210 ~ 2000 MHz	dB	25	41	-				

C. <u>ELECTRICAL CHARACTERISTICS</u>:

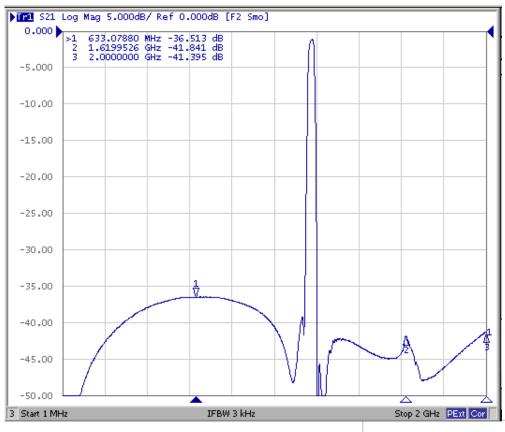


D. Frequency Characteristics:

Span 200 MHz



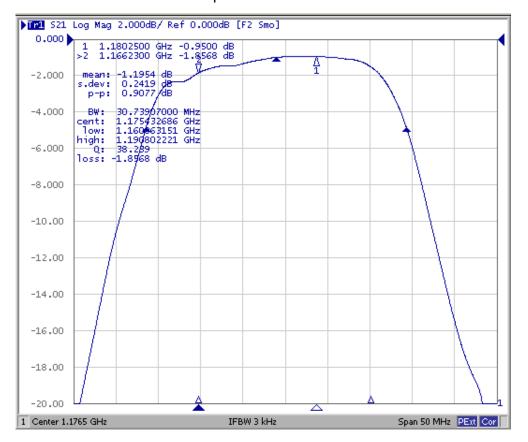
Span 2000 MHz



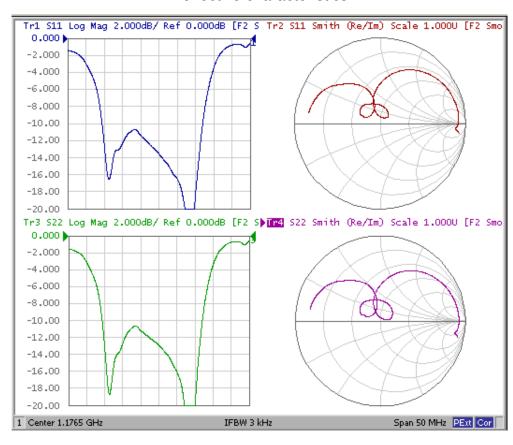
TAI-SAW TECHNOLOGY CO., LTD.

TST DCCRelease document

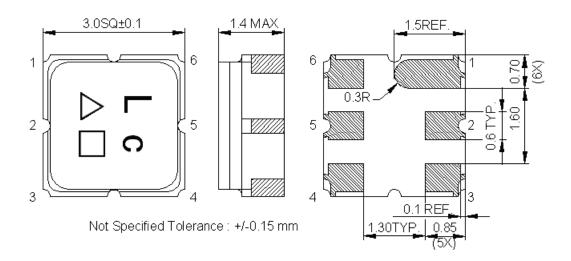
Span 50 MHz



Reflective characteristics



E. MEASUREMENT CIRCUIT:



#2: Input

#5: Output

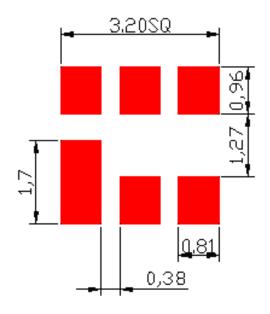
☐ : Date Code (Follow the table from planner each year)

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

#1, 3, 4, 6: Ground

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	C	D	Е	F	G	H	I	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	P	Q	R	S	Т	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	ь	С	d	е	f	g	h	i	j	k	1	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	s	t	u	v	w	Х	у	Z

F. PCB Footprint



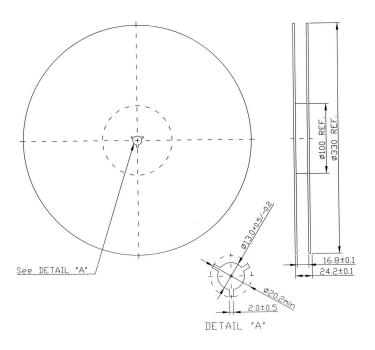
TAI-SAW TECHNOLOGY CO., LTD.

TST DCC Release document

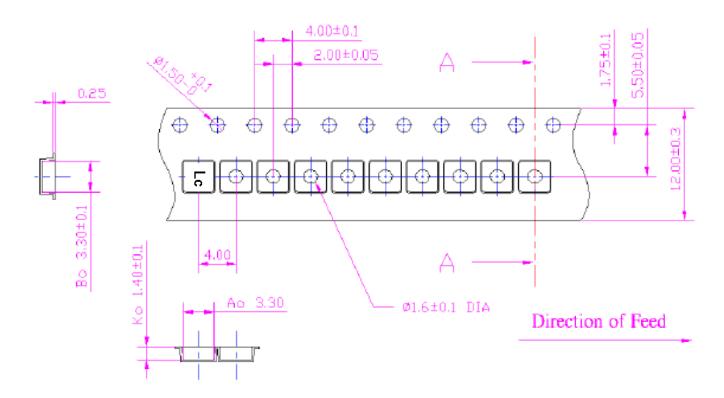
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150\sim180^{\circ}$ C for $60\sim90$ 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.

