



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 1950 MHz Band 1 TX SMD 1.1x0.9 mm (BW=60 MHz)

TST Part No.: TA1815DA

Customer Part No.: _____

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

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/05/15

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 change



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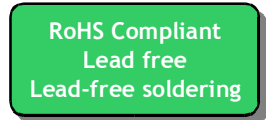
SAW Filter 1950 MHz Band 1 TX SMD 1.1x0.9 mm

MODEL NO.: TA1815DA

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
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 3 (**MSL3**)



Electrostatic Sensitive Device (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

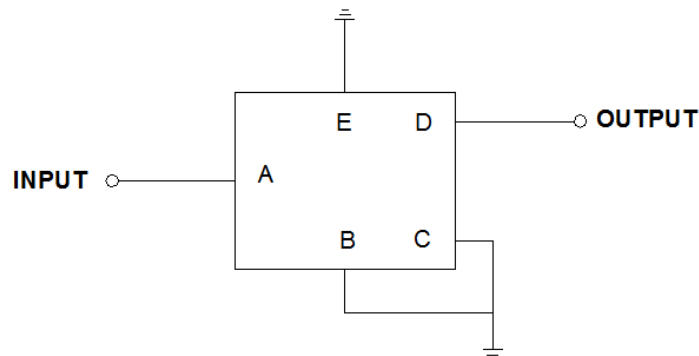
Terminating source impedance: $Z_s = 50 \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

Item	Unit	Min.	Typ.	Max.
Center frequency F_c	MHz	-	1950	-
Insertion Loss (1920~1980 MHz) IL	dB	-	1.6	2.5
Amplitude Ripple (1920~1980 MHz)	dB _{p-p}	-	0.7	2.0
VSWR (1920~1980 MHz)	-	-	2.0	2.4
Attenuation (Reference level from 0 dB)				
DC ~ 1577 MHz	dB	30	33	-
1577 ~ 1880 MHz	dB	22	30	-
2110 ~ 2170 MHz	dB	35	42	-
2500 ~ 3120 MHz	dB	28	34	-
3840 ~ 3960 MHz	dB	25	31	-
5760 ~ 5940 MHz	dB	15	21	-

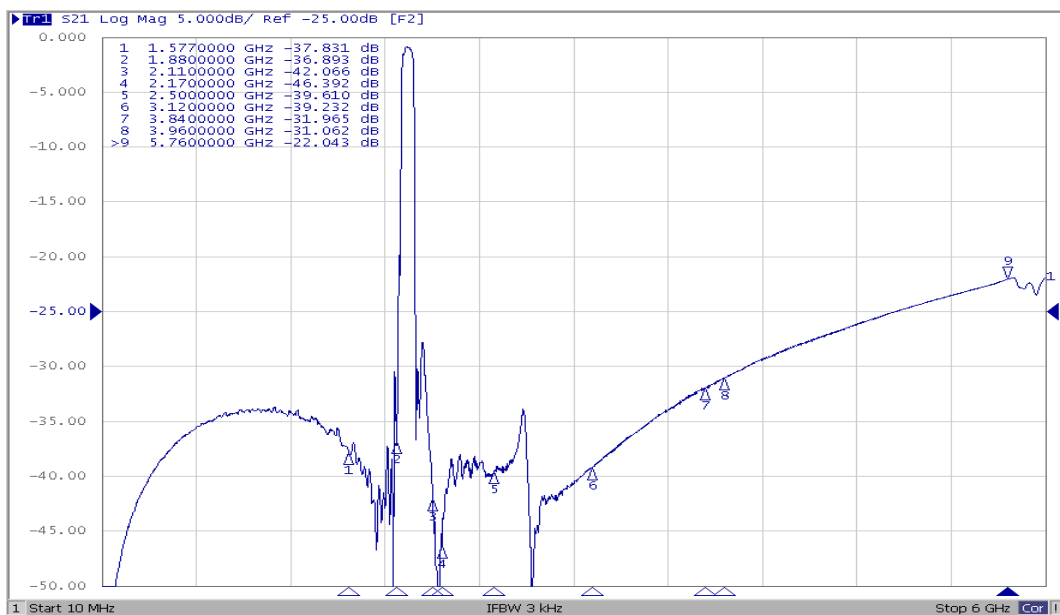
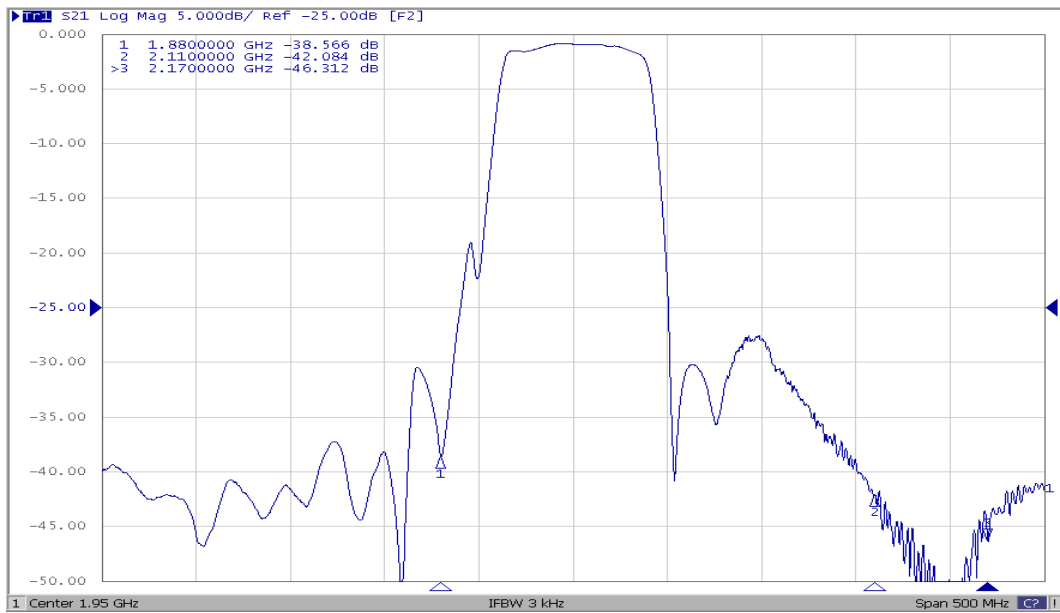
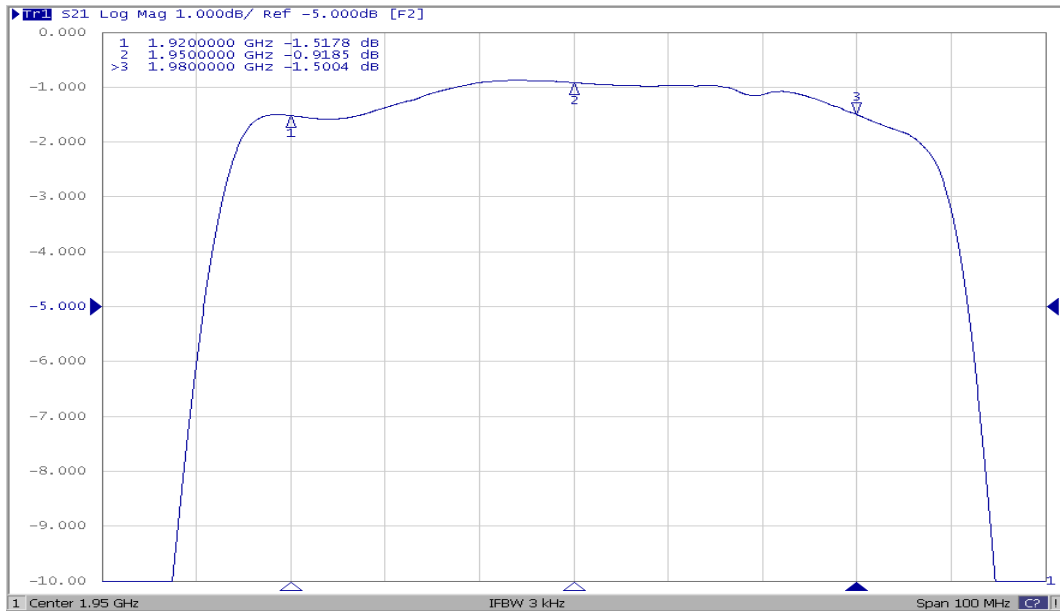
Notes: No Matching Network.

C. MEASUREMENT CIRCUIT:



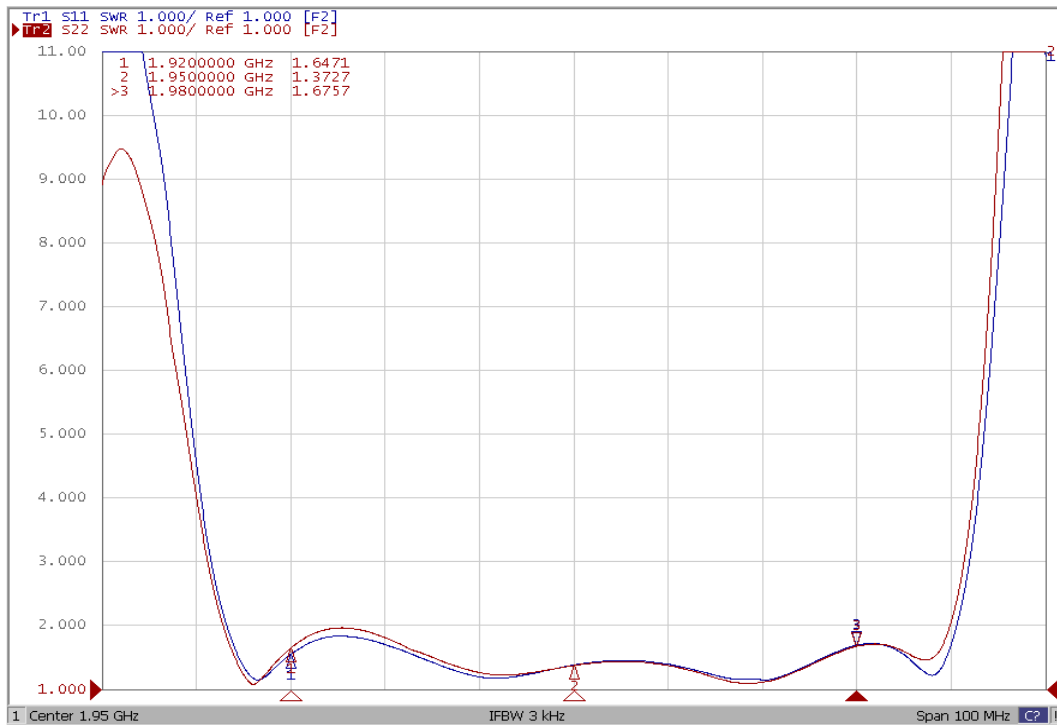
Source & Load Impedance: 50 Ω

D. FREQUENCY CHARACTERISTICS:

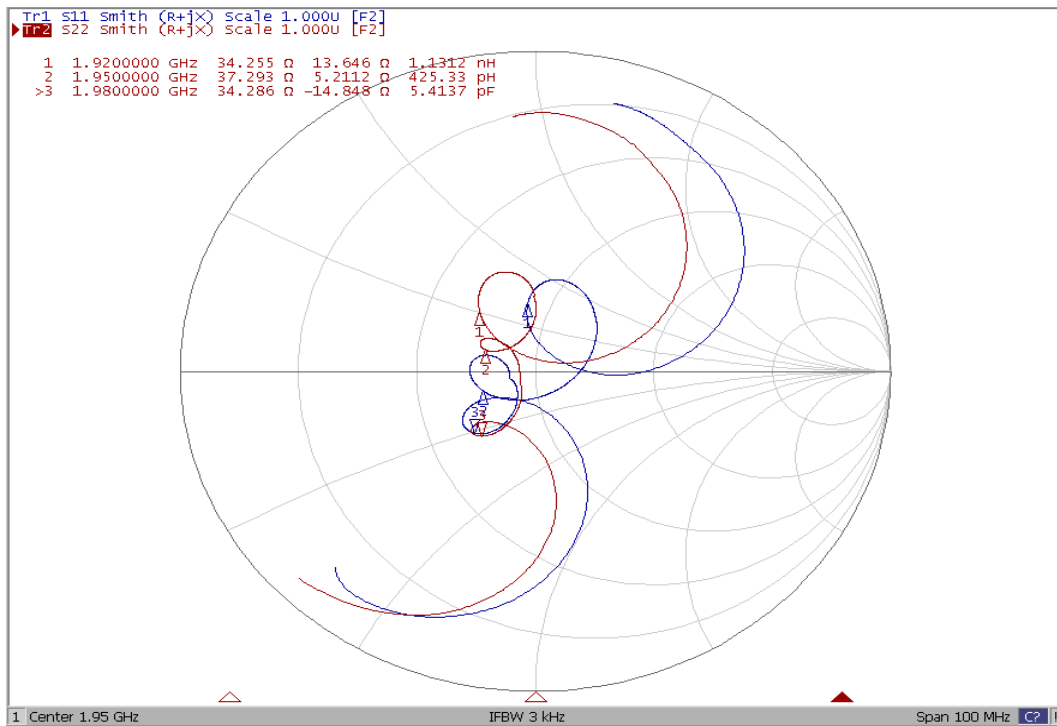


Reflection Functions:

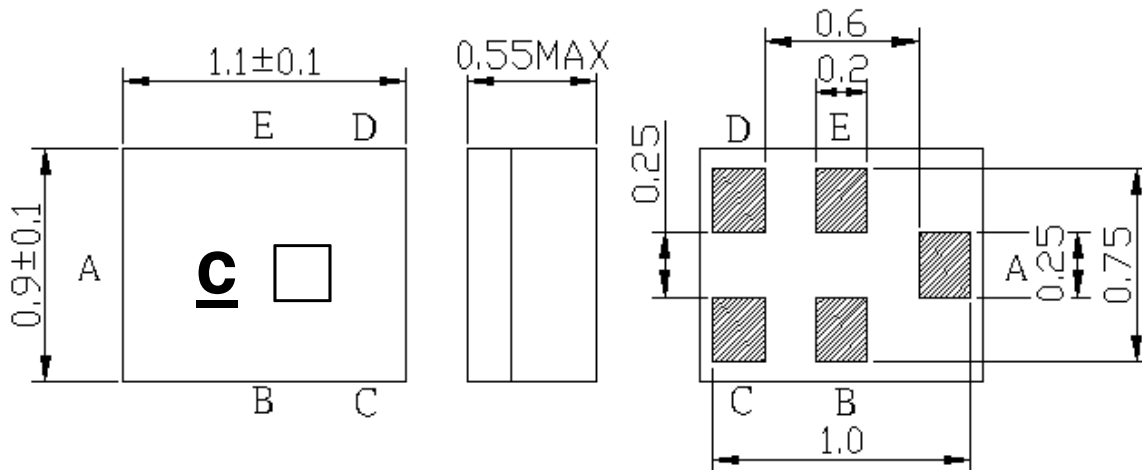
VSWR



Smith Chart



E. OUTLINE DRAWING:



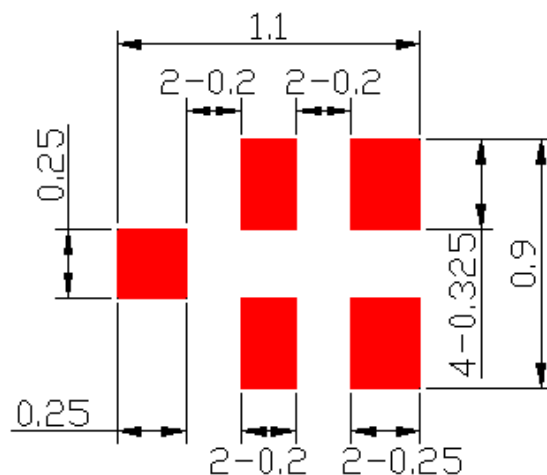
Pin Description	
B, C, E	Ground
A	Input
D	Output

Marking Descriptions	
	Date Code(Year+Month)

: Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

F. PCB Footprint :



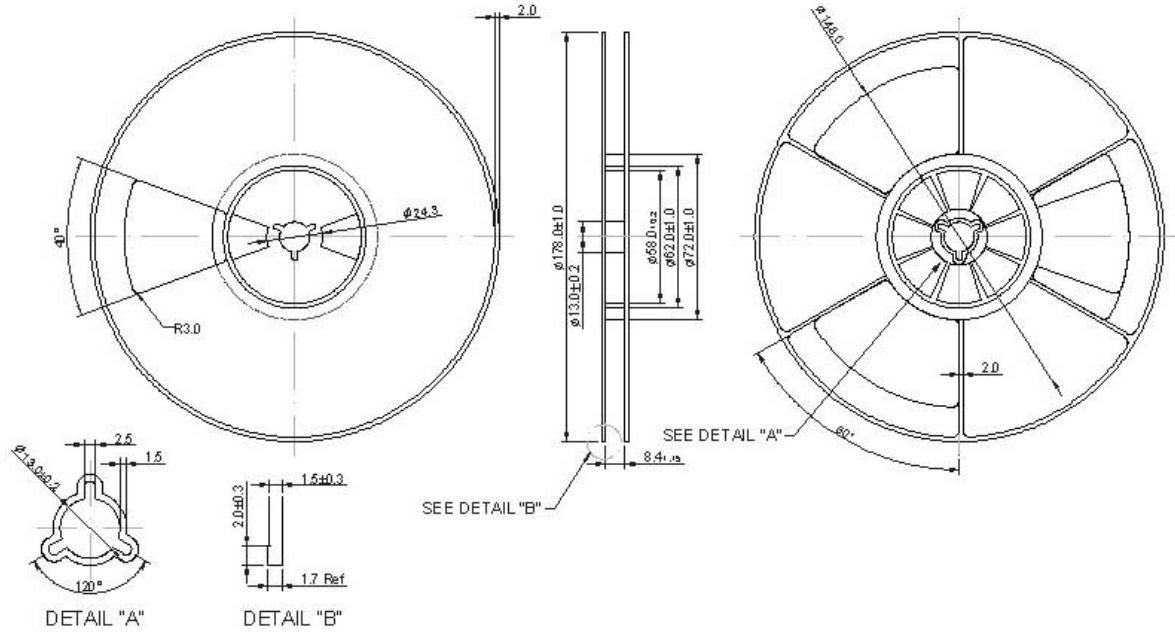
: Land Pattern

Unit: mm

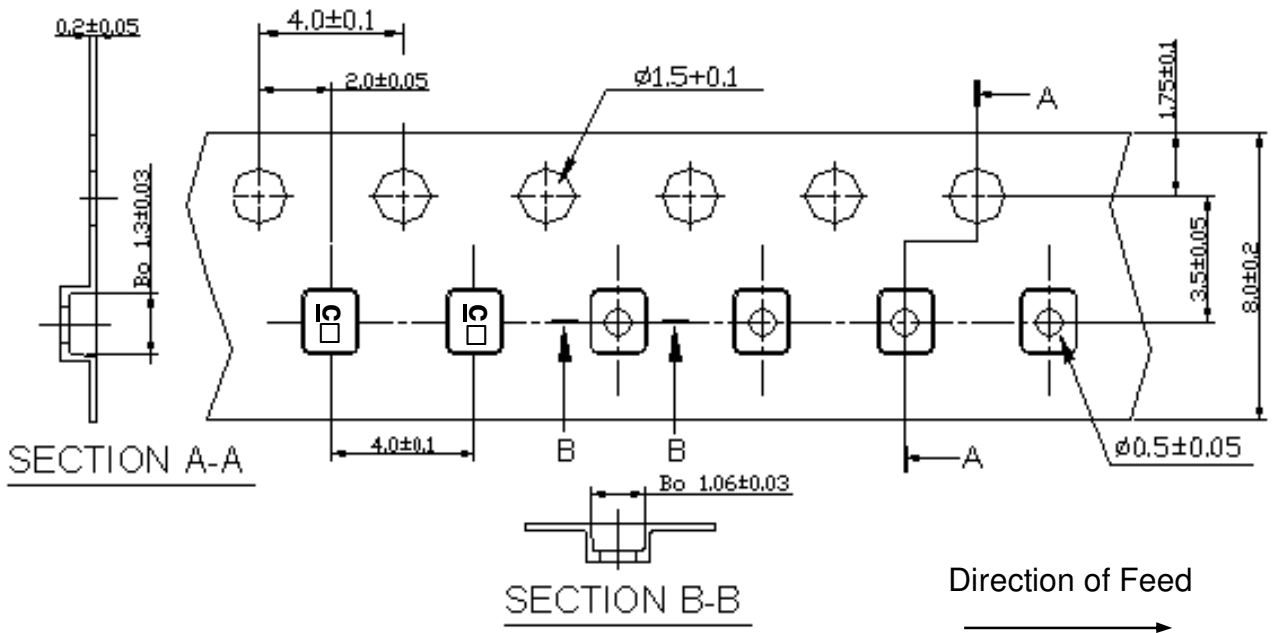
G. PACKING: (Ref. WI-75M03)

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°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.

