



TAI-SAW TECHNOLOGY CO., LTD.

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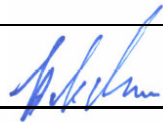
Product Specifications Approval Sheet

Product Description: SAW Rx Filter 1900MHz LTE Band 39 SMD 1411

TST Part No.: TA1424A

Customer Part No.: _____

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

Checked by: _____ Bob Chau 

Approved by: _____ Bob Chau 

Date: _____ 2017/04/26

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 Rx Filter 1900MHz LTE Band 39 SMD 1411 (40MHz BW)

MODEL NO.:TA1424A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm, 2000 hours
2. DC Voltage : 3V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 3
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

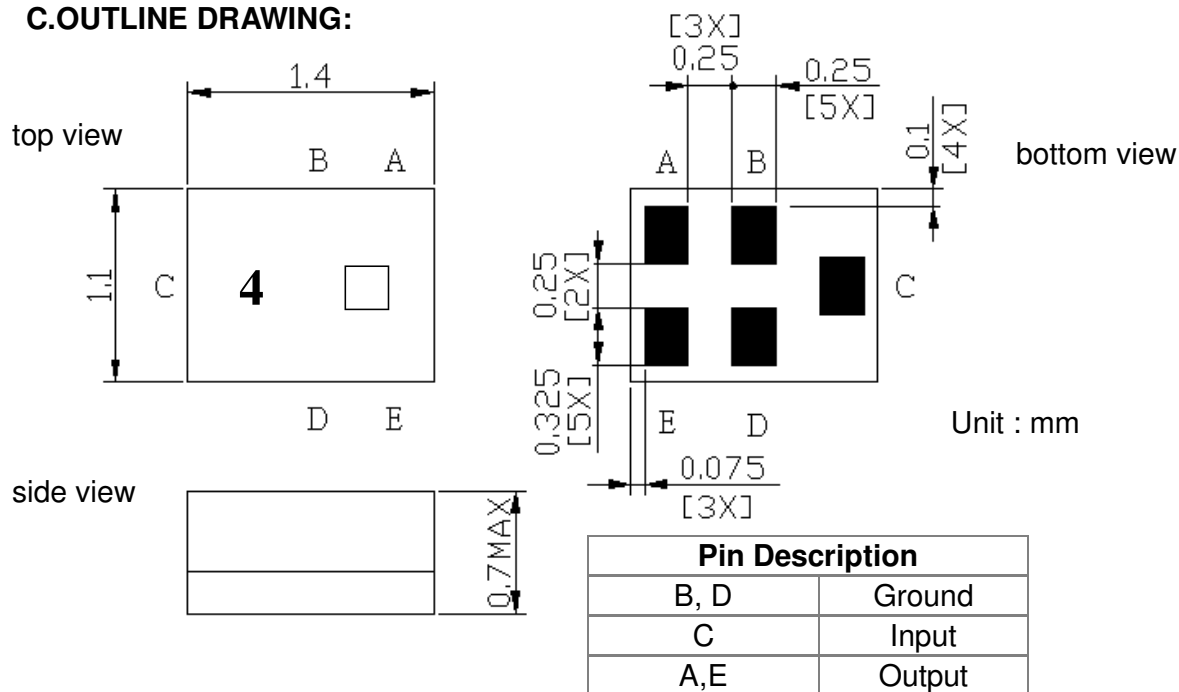
B. ELECTRICAL CHARACTERISTICS:

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

Terminating load impedance (differential) : $Z_L = 200 \Omega // 22nH$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1900	-	-
Insertion Loss (1880~1920MHz) IL	dB	-	1.9	3	-
Amplitude ripple (1880~1920 MHz)	dB	-	0.2	1.2	-
Output amplitude balance ($ S_{31}/S_{21} $) (1880~1920 MHz)	dB	-5	-0.3 /2.3	5	-
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$) (1880~1920 MHz)	deg	-15	0/6.3	15	-
VSWR (1880~1920 MHz)		-	1.7	2.2	-
Attenuation:					
10~1000 MHz	dB	40	42	-	-
1000~1500 MHz	dB	35	40	-	-
1500~1800 MHz	dB	18	34	-	-
1800~1820 MHz	dB	15	33	-	-
1820~1840 MHz	dB	10	28	-	-
1970~2000 MHz	dB	15	21	-	-
2000~2500 MHz	dB	20	26	-	-
2500~3000 MHz	dB	25	40	-	-
3000~4500 MHz	dB	40	52	-	-
4500~6000 MHz	dB	25	44	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

C.OUTLINE DRAWING:



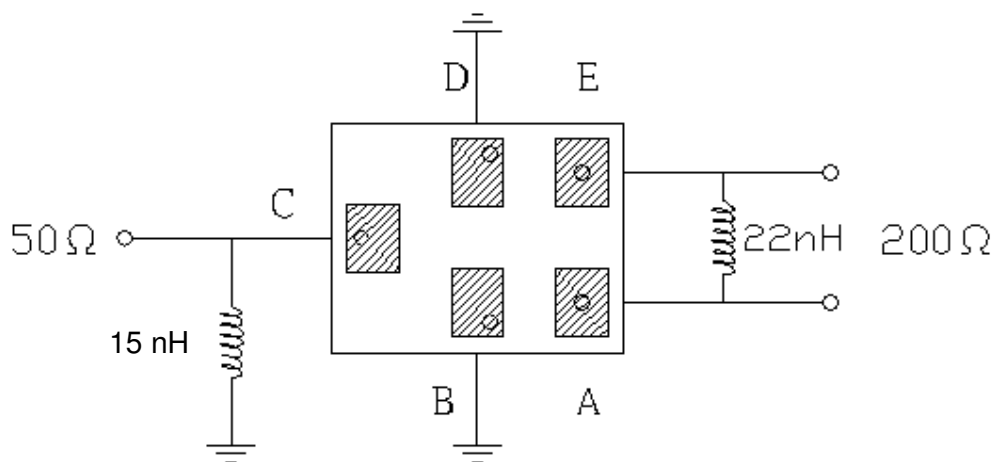
Marking Descriptions:

4 : Series Number

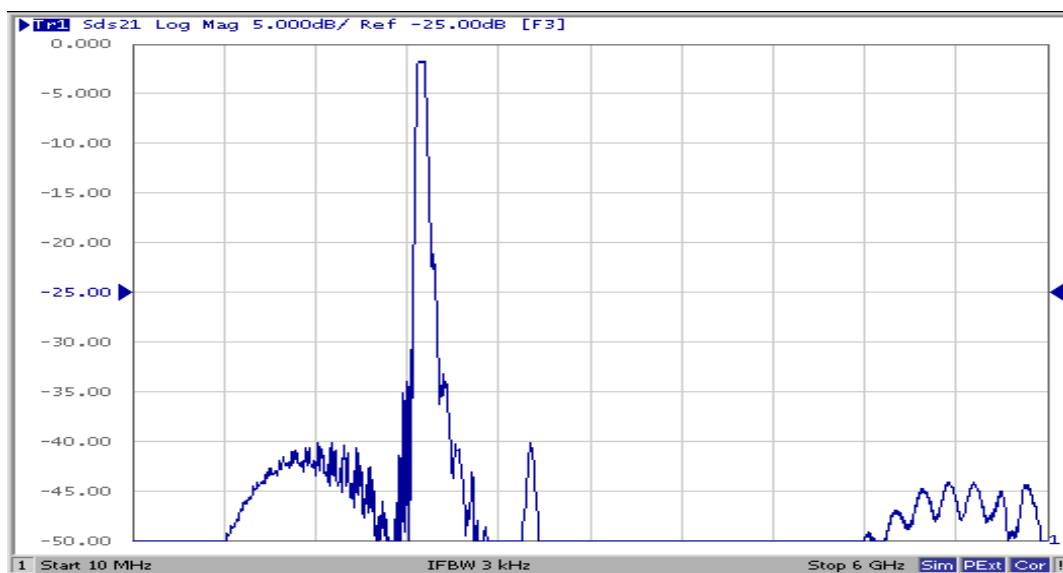
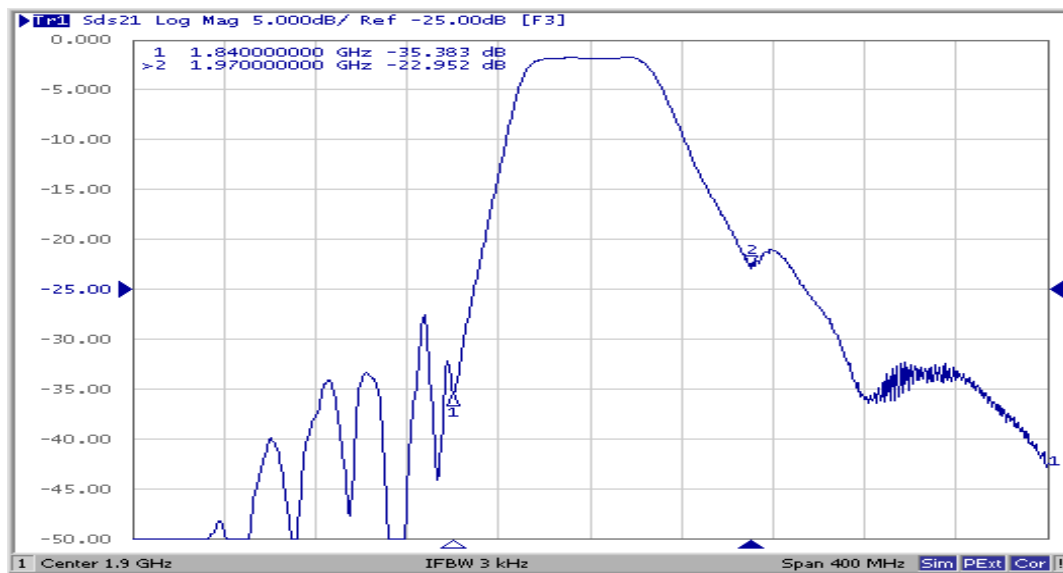
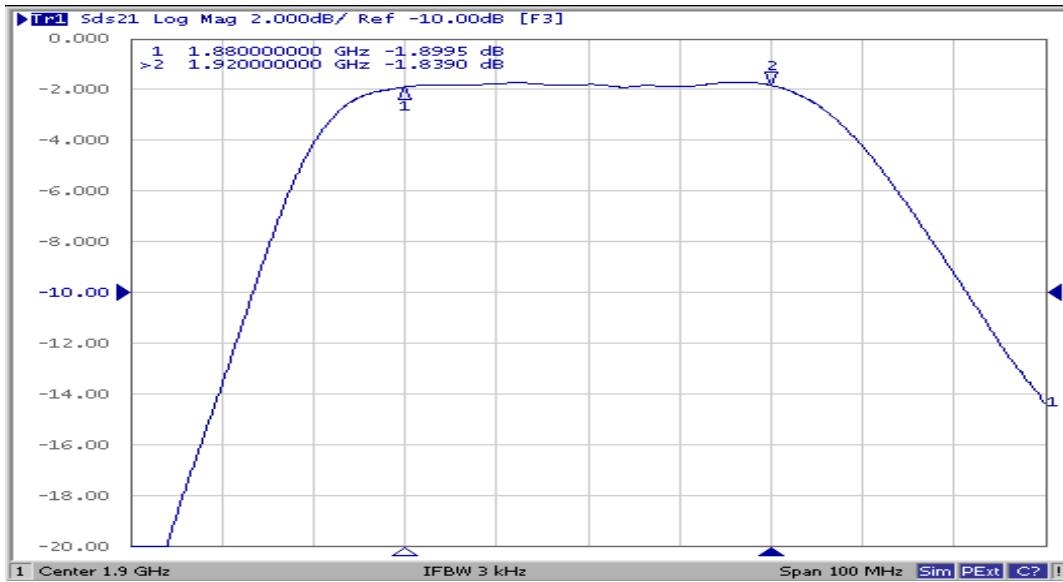
□ : Year/Month Code (Follow the table)

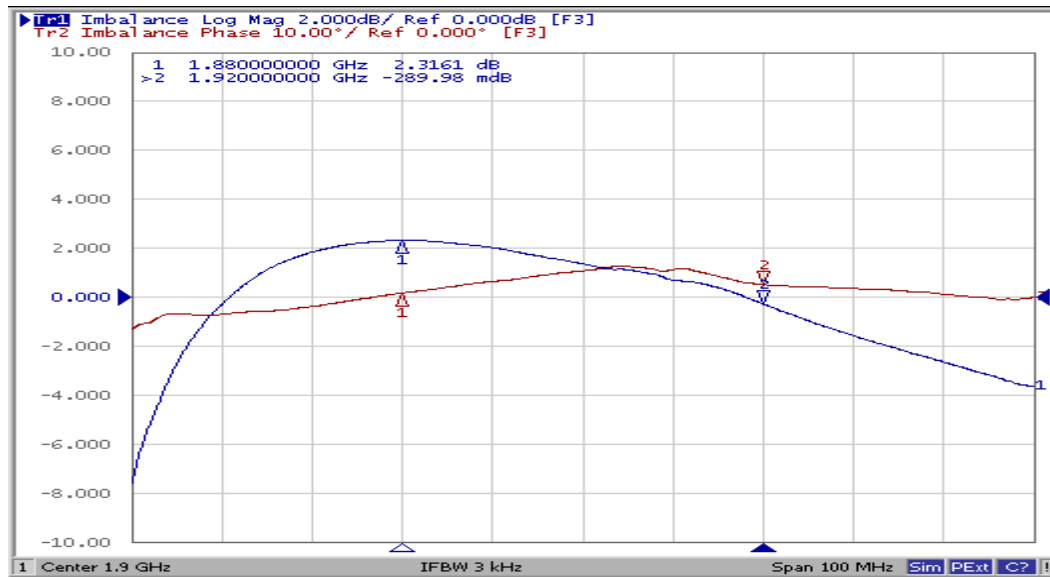
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R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

D. MEASUREMENT CIRCUIT:

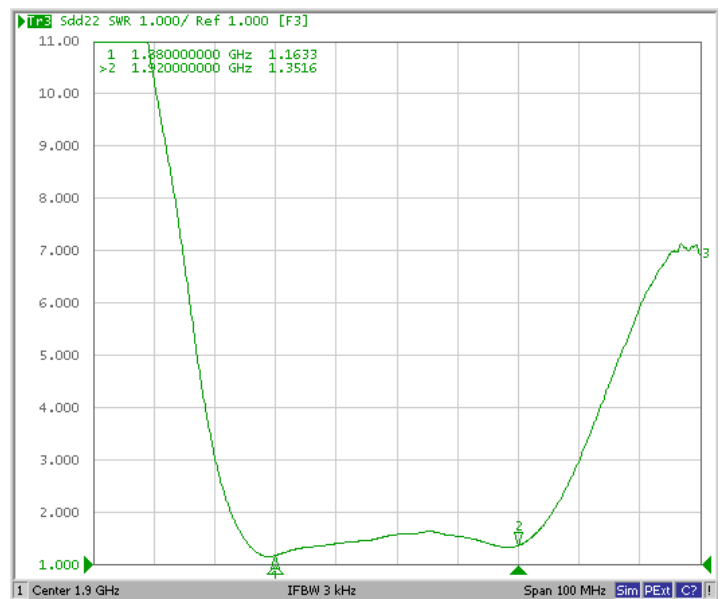
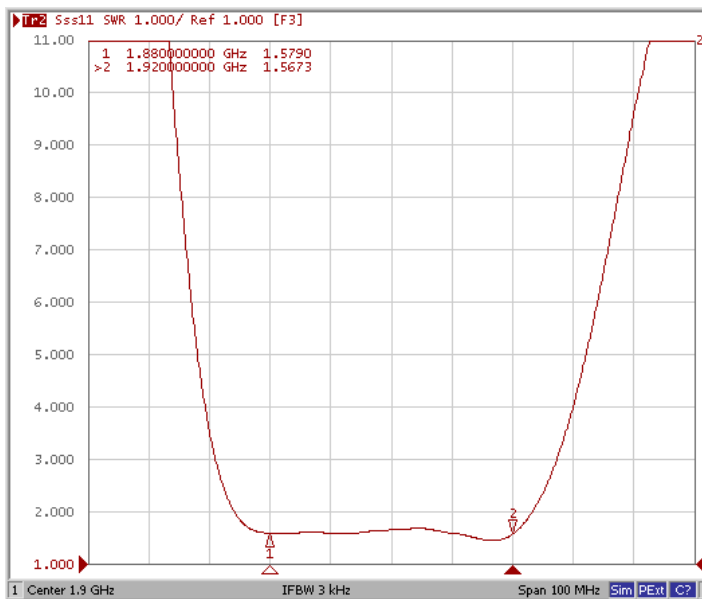


E. Frequency Characteristics :





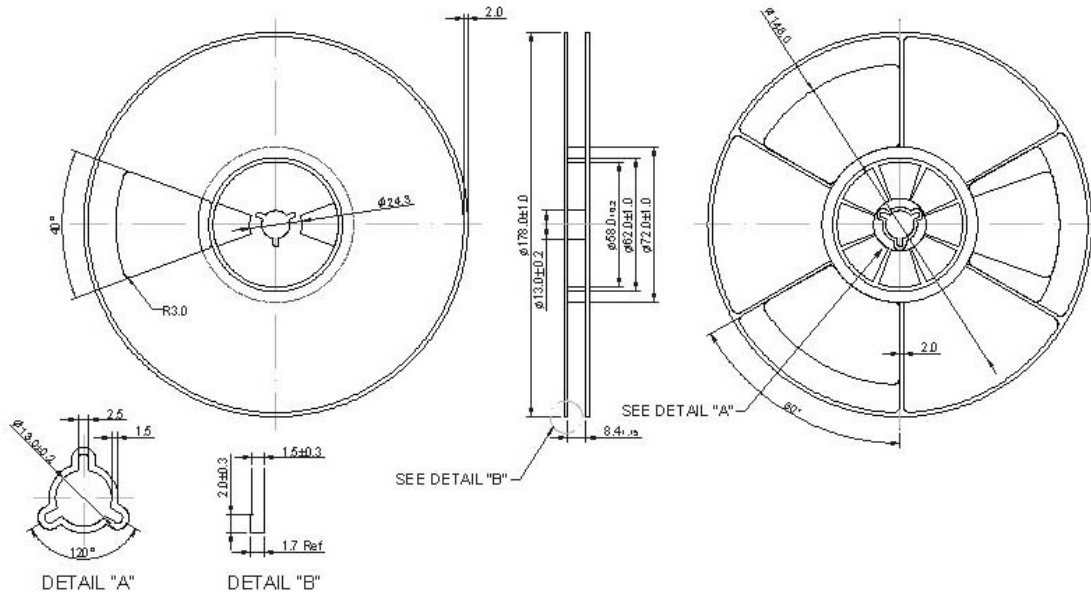
Reflection Functions :



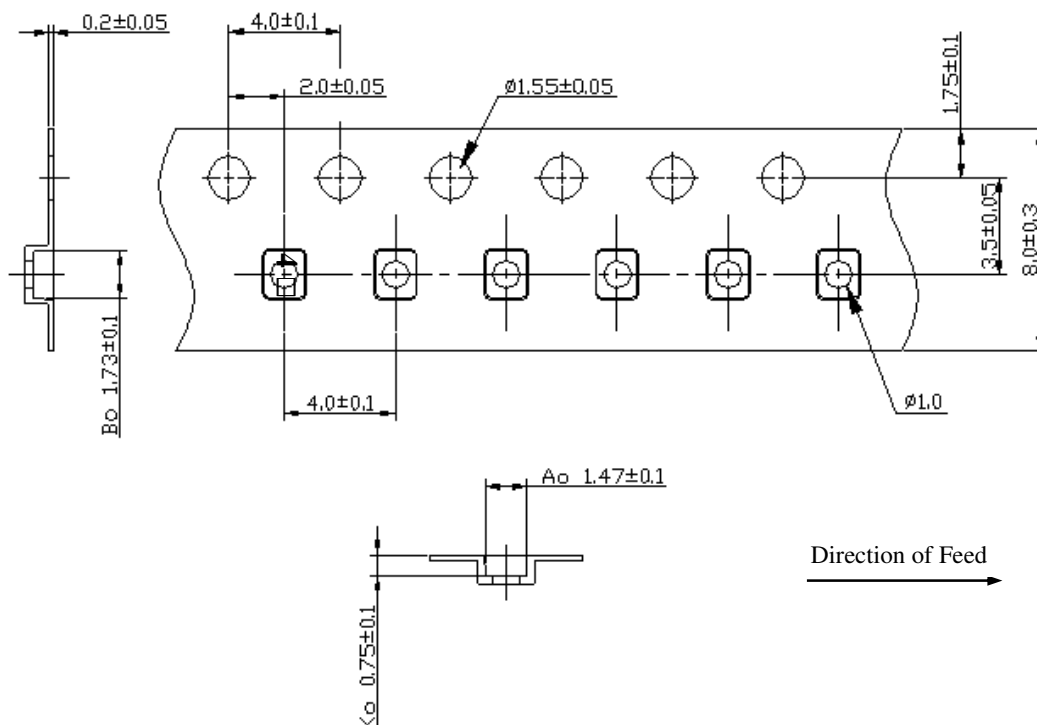
F. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=3000)



2. TAPE DIMENSION



G. 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 245~260°C peak (min. 10sec).
4. Time : 2 times.

