



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW Rx Filter 2017.5 MHz LTE Band 34 SMD 1411

TST Part No.: TA1193A

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 2017.5 MHz LTE Band 34 SMD 1411 (15MHz BW)

MODEL NO.:TA1193A

REV. NO.:3

A. MAXIMUM RATING:

1. Input Power Level: 12 dBm
2. DC Voltage : 3V
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +95°C
5. Moisture Sensitivity Level: Level 3
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

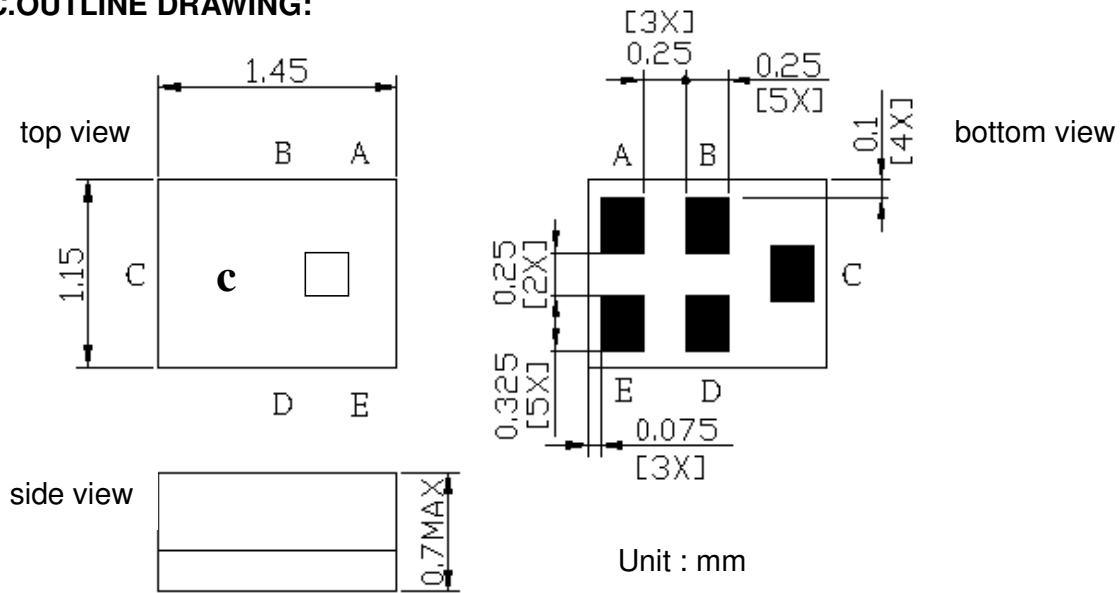
B. ELECTRICAL CHARACTERISTICS:

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

Terminating load impedance (differential) : $Z_L = 200 \Omega // 27nH$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	2017.5	-	-
Insertion Loss (2010~2025 MHz) IL	dB	-	3	3.5	-
Amplitude ripple (2010~2025 MHz)	dB	-	0.8	1.4	-
Group Delay ripple (2010~2025 MHz)	ns	-	13	20	-
Output amplitude balance ($ S_{31}/S_{21} $) (2010~2025 MHz)	dB	-3	0.3	3	-
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$) (2010~2025 MHz)	deg	-13	-3	13	-
VSWR (2010~2025 MHz)		-	1.6	2.5	-
Attenuation:					
100~995 MHz	dB	32	65	-	-
995~1022 MHz	dB	35	65	-	-
1022~1925 MHz	dB	25	41	-	-
1925~1950 MHz	dB	22	42	-	-
1950~1980 MHz	dB	13	25	-	-
2050~2085 MHz	dB	5	19	-	-
2085~2110 MHz	dB	15	25	-	-
2430~2565 MHz	dB	35	51	-	-
2565~4010 MHz	dB	32	46	-	-
4010~4060 MHz	dB	40	58	-	-
4060~6000 MHz	dB	32	55	-	-

C.OUTLINE DRAWING:



Pin Description	
B, C	Ground
C	Unbalance Input
A, E	Balance Output

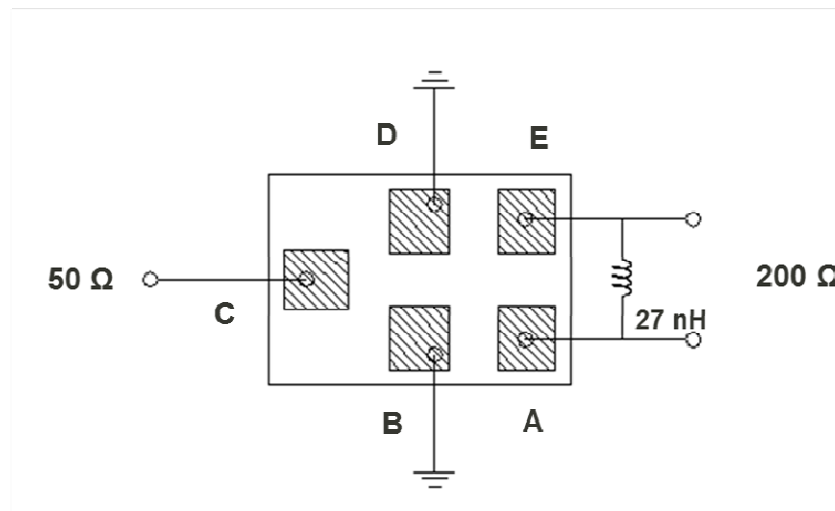
Marking Descriptions:

c : Series Number

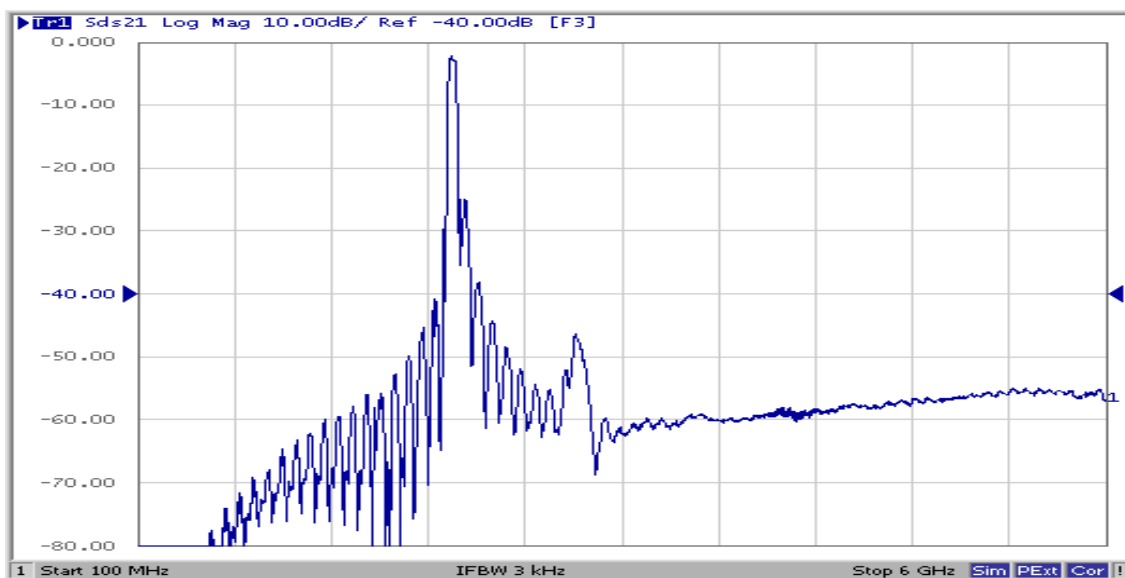
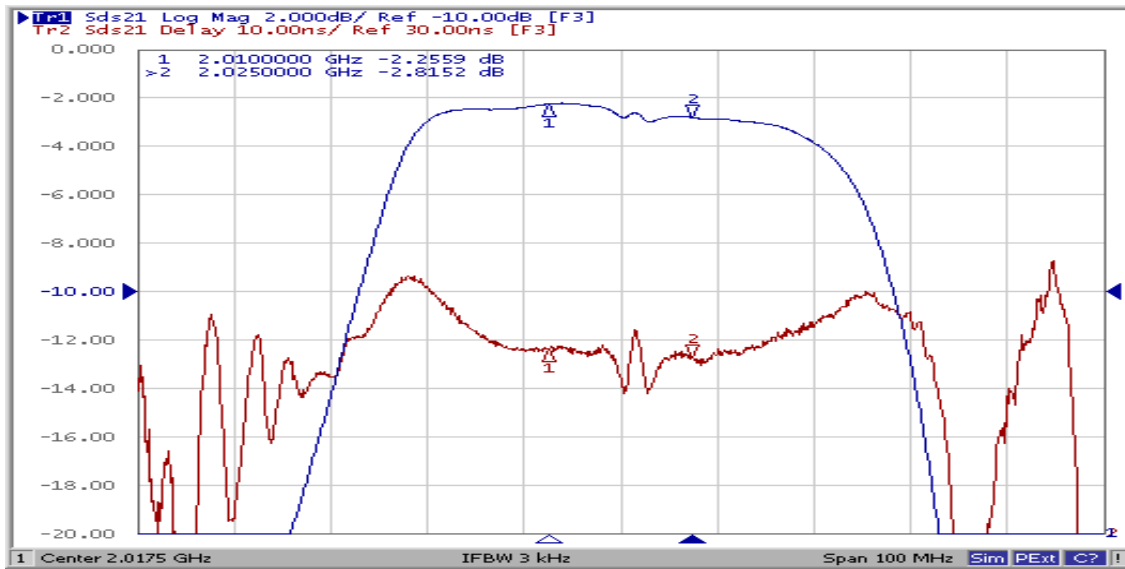
□ : Year/Month Code (Follow the table)

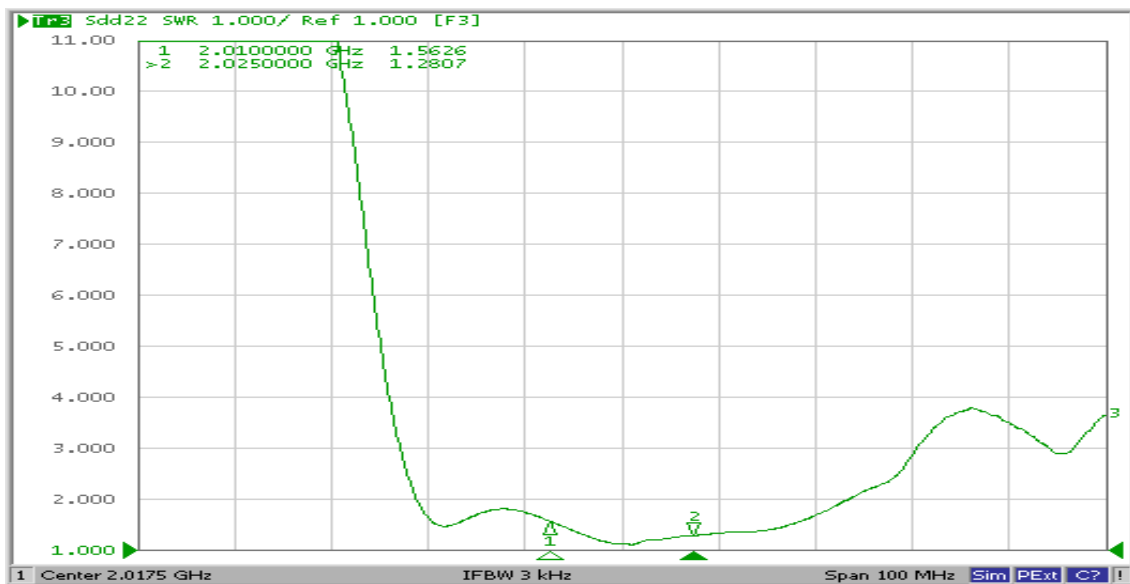
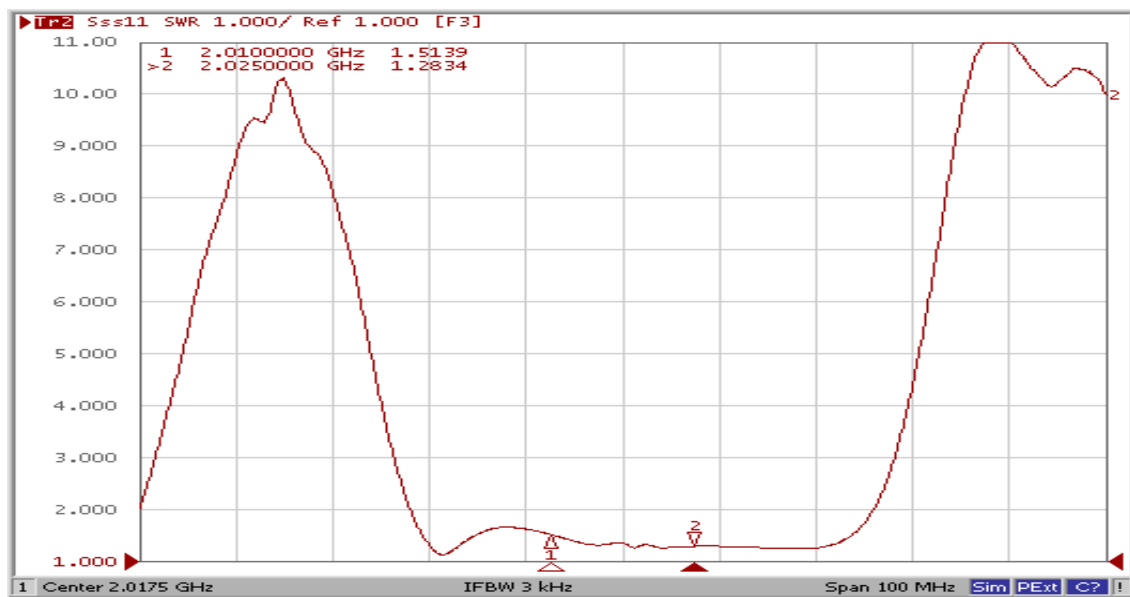
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>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

D. MEASUREMENT CIRCUIT:



E. Frequency Characteristics :

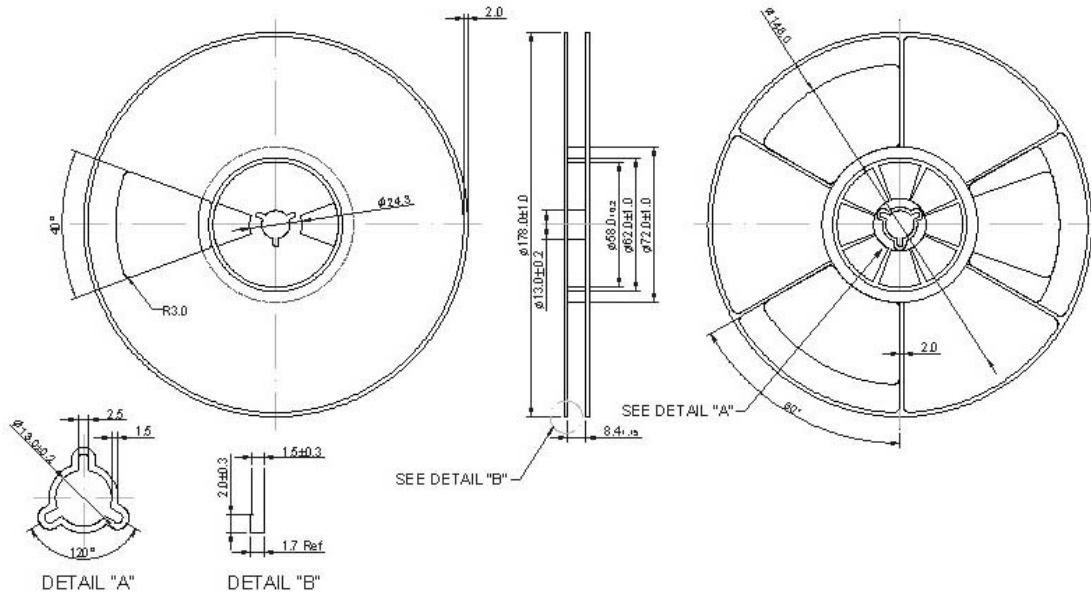




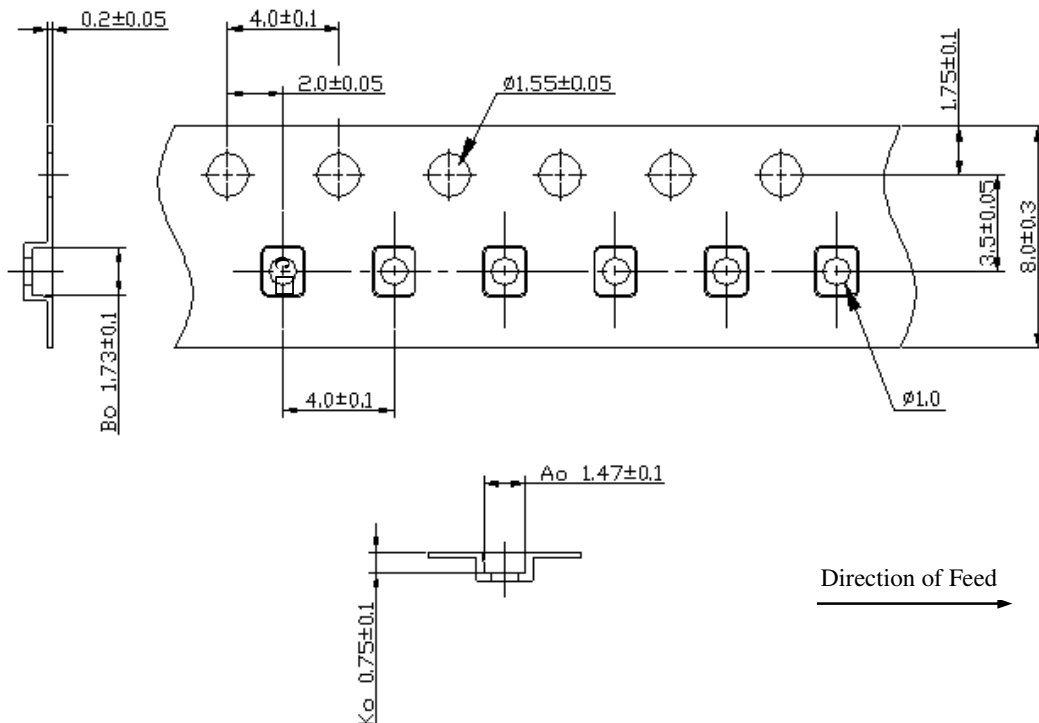
F. PACKING:

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.

