



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

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

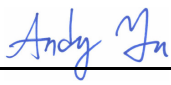
Product Specifications Approval Sheet

Product Name: SAW Rx Filter 722MHz LTE Band 29 SMD 1411

TST Parts No.: TA1143A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu 

Approval 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



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

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Rx Filter 722MHz LTE Band 29 SMD 1411

MODEL NO.: TA1143A

Rev 2.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -10°C to +60°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

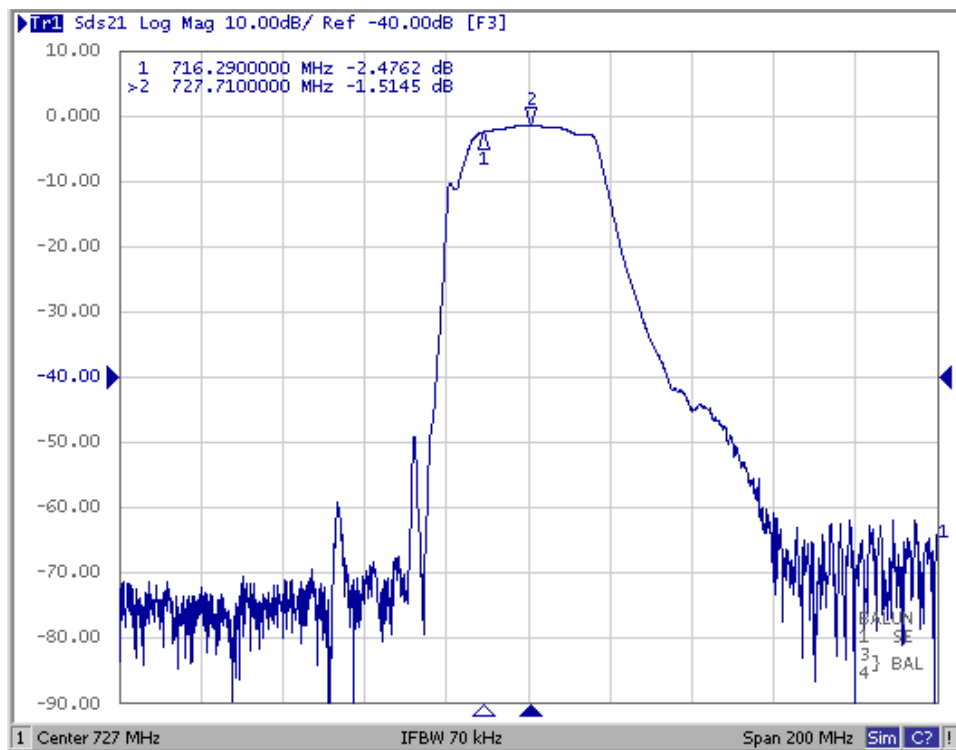
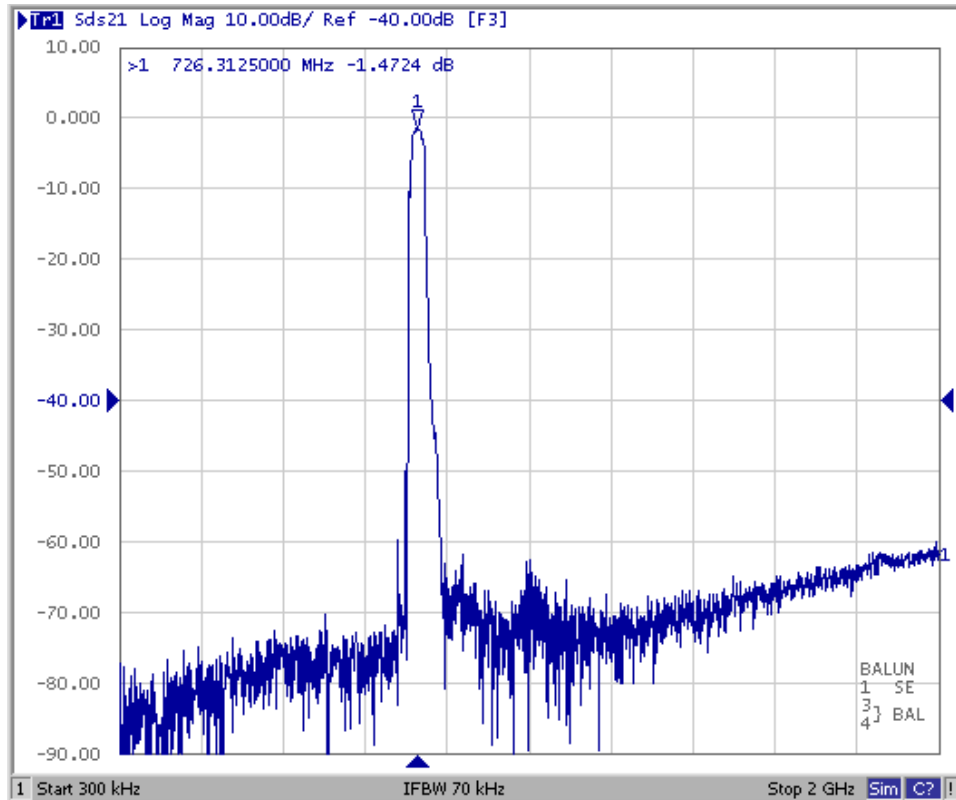
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

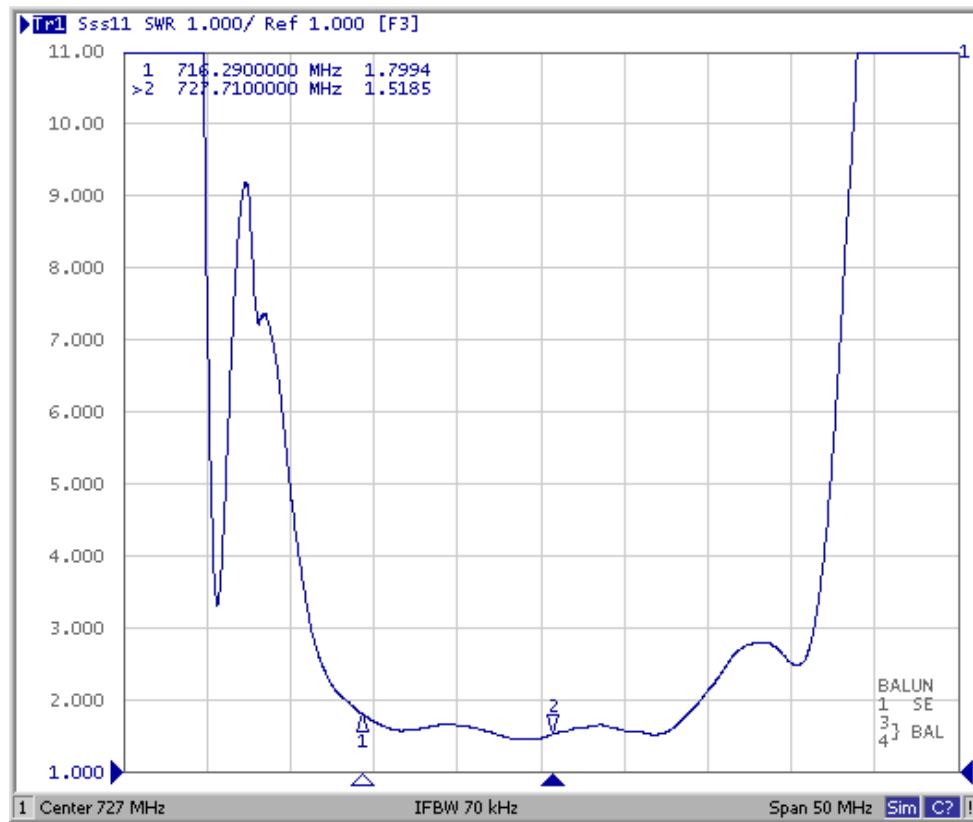
Terminating load impedance (Balanced) : $Z_L = 50 \Omega$

Parameters Description		Unit	Mini	Typical	Max
Center Frequency (Fo)		MHz	-	722	
Insertion Loss	716.29~727.71 MHz	dB	-	2.2	2.8
Input VSWR				1.6	2.2
Output VSWR				1.9	2.2
amplitude ripple		dB _{p-p}		0.9	1.4
Group delay ripple		dB _{p-p}	-	40	80
Output amplitude balance (S31/S21)		dB	-1	0.4	1
Output phase balance (Φ(S31)-Φ(S21)+180°)		-	-12	8	12
Attenuation:					
0.1~698 MHz		dB	35	70	-
704~710 MHz		dB	1.5	3.5	-
710~716 MHz		dB	0.5	2.0	-
728~734 MHz		dB	0.5	2.1	-
734~740 MHz		dB	1.5	2.6	-
740~746 MHz		dB	15	23	-
746~756 MHz		dB	15	25	-
776~798 MHz		dB	40	55	-
824~960 MHz		dB	40	63	-
1575 MHz		dB	32	45	-
1710~1785 MHz		dB	30	64	-
1920~1980 MHz		dB	25	62	
2400~2484 MHz		dB	20	45	

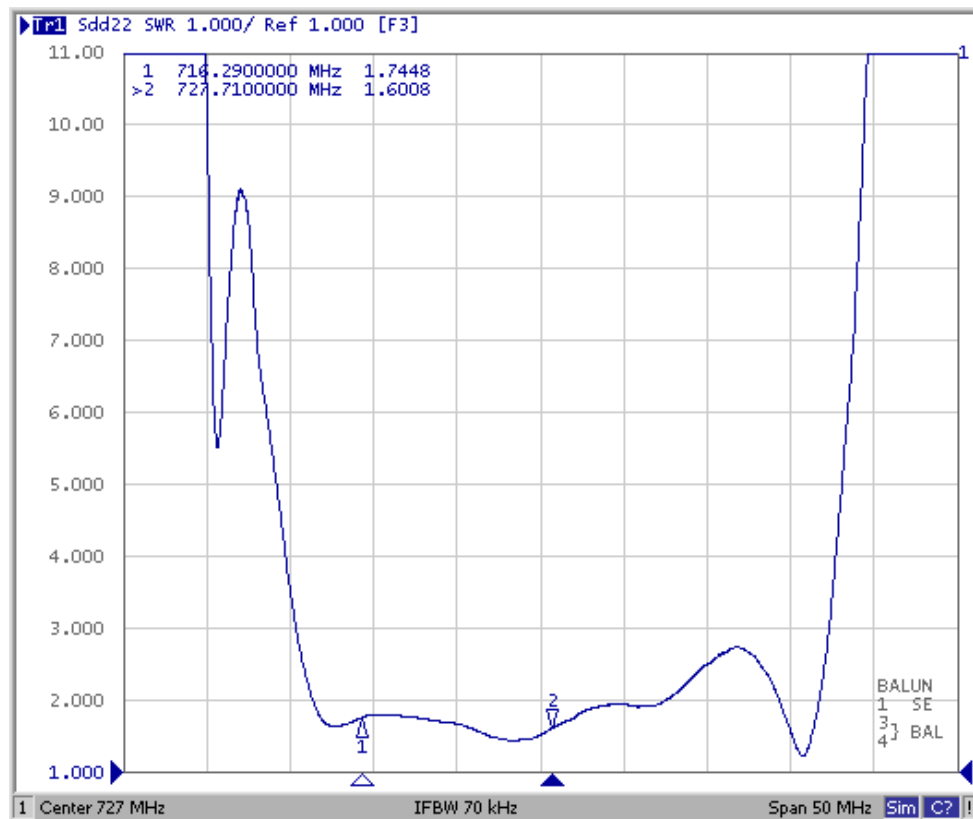
C.FREQUENCY CHARACTERISTICS:



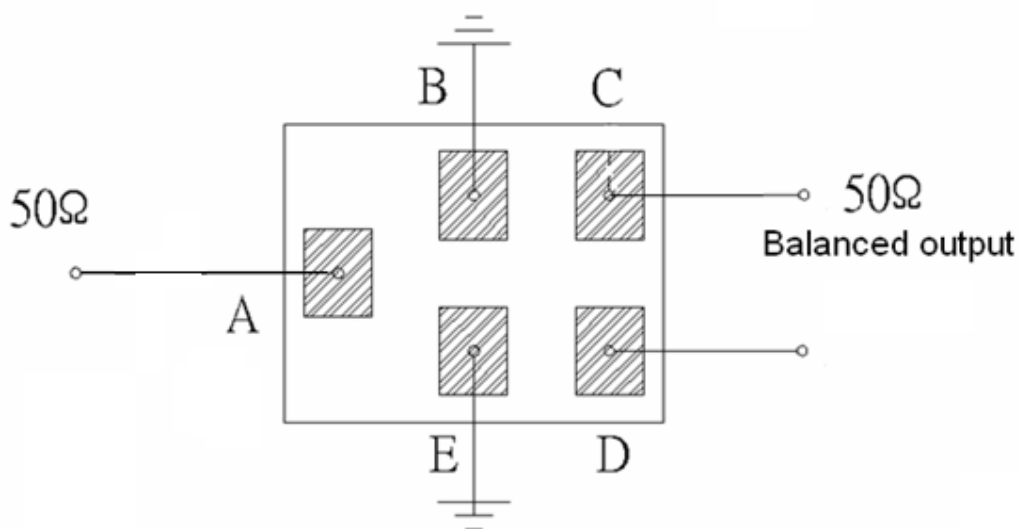
S11 VSWR



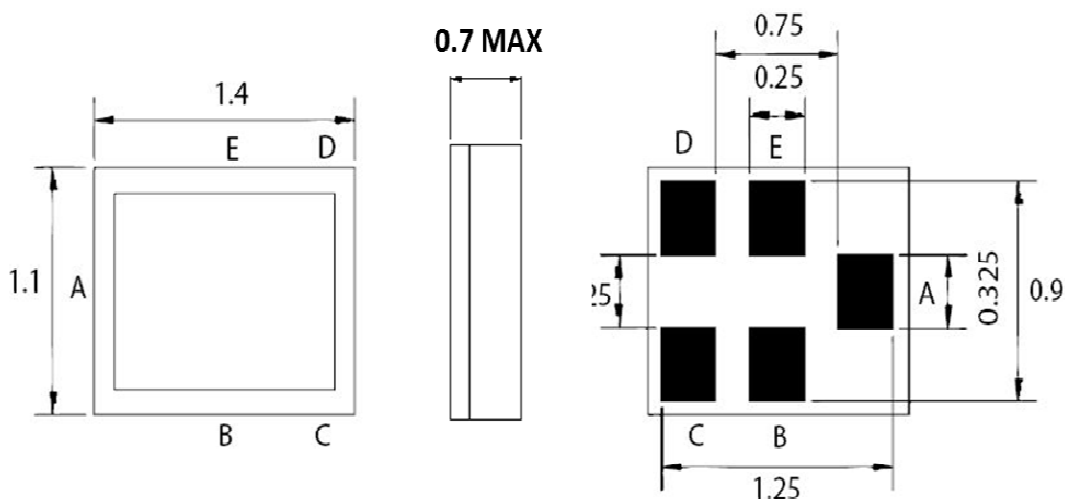
Sd22 VSWR



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



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

Marking Descriptions:

e : Series Number

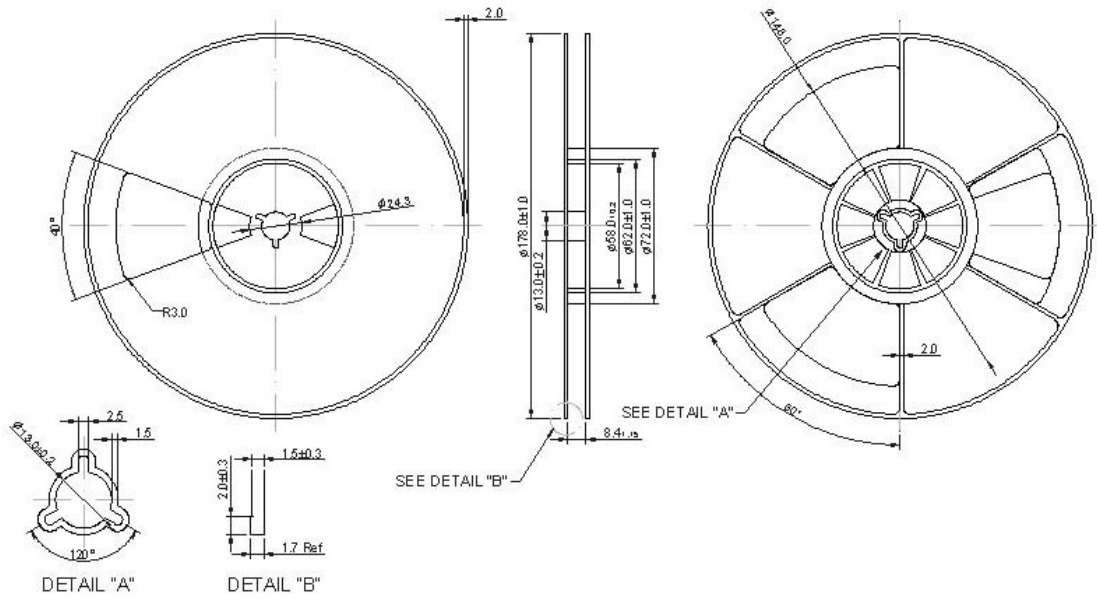
Δ : Year/Month Code (Follow the table)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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>

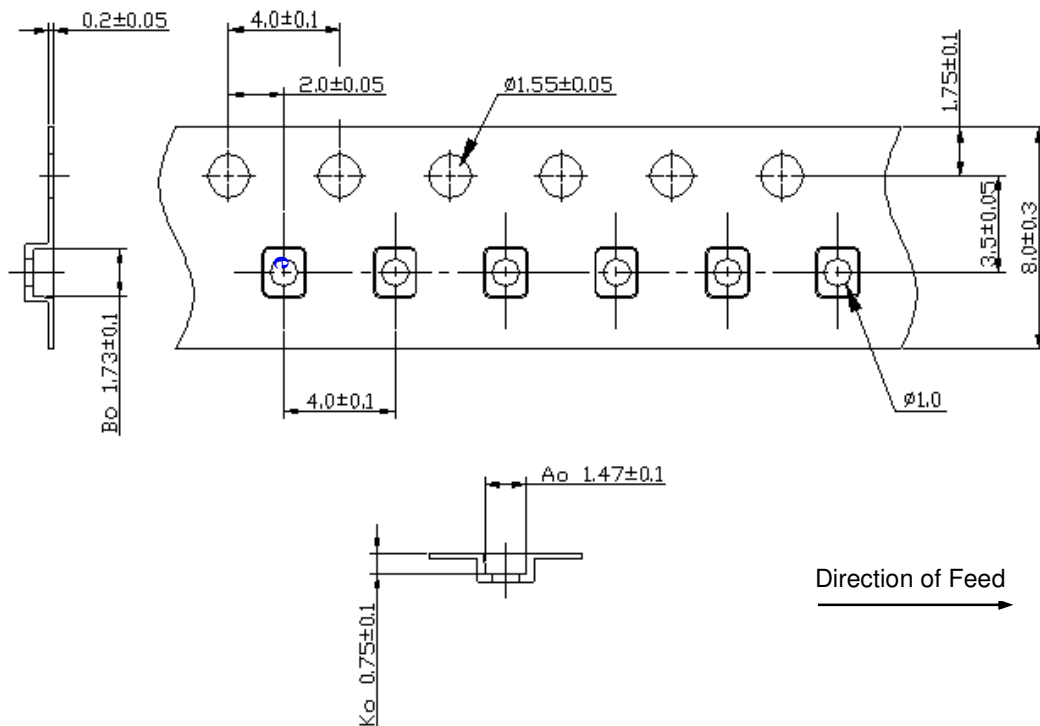
F. PACKING:

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.

