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.: TA1173A

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

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SAW Rx Filter 722MHz LTE Band 29 SMD 1411

MODEL NO.:TA1173A REV. NO.:2.0

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

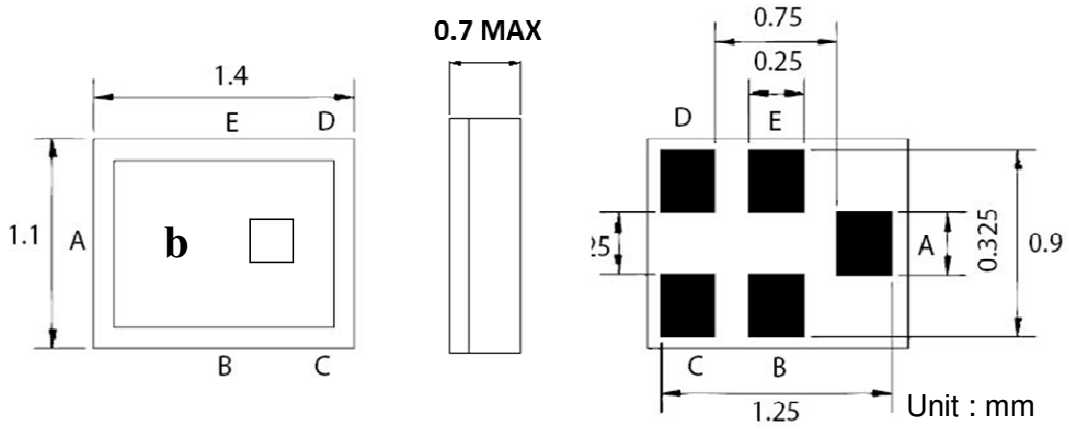
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 50 Ω

Parameters Description		Unit	Mini	Typical	Max
Center Frequency (Fo)		MHz	-	722.0	
Insertion Loss	**716.29 ~ 727.71** MHz	dB	-	2.1	2.8
Amplitude Ripple		dB_{p-p}	-	0.4	1.2
VSWR		-	-	1.95	2.2
Group Delay		ns_{p-p}	-	35	80
Attenuation:					
0.1 ~ 698.0 MHz		dB	35	38	-
704.0 ~ 710.0 MHz		dB	3	7	-
710.0 ~ 716.0 MHz		dB	0.5	1.5	-
728.0 ~ 734.0 MHz		dB	0.5	2.0	-
734.0 ~ 740.0 MHz		dB	5	11.1	-
740.0 ~ 746.0 MHz		dB	23	27	-
746.0 ~ 756.0 MHz		dB	30	36	-
776.0 ~ 798.0 MHz		dB	40	52	-
824.0 ~ 960.0 MHz		dB	40	46	-
1575.0 MHz		dB	32	36	-
1710.0 ~ 1785.0 MHz		dB	30	34	-
1920.0 ~ 1980.0 MHz		dB	25	33	-
2400.0 ~ 2484.0 MHz		dB	20	26	-

C.OUTLINE DRAWING:



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

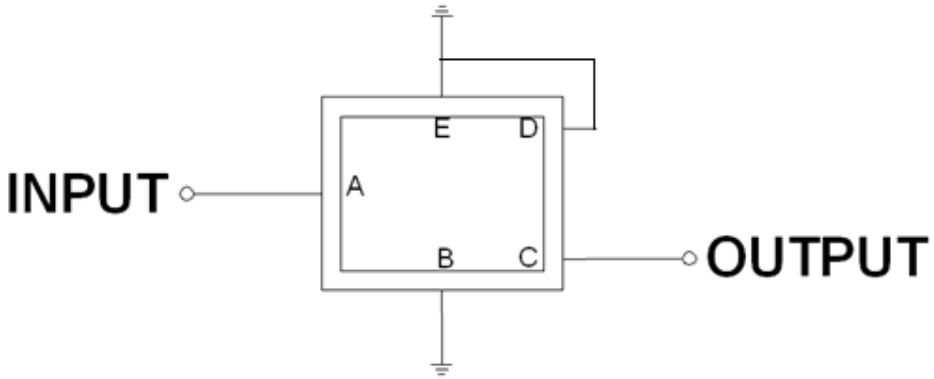
Marking Descriptions:

b : Series Number

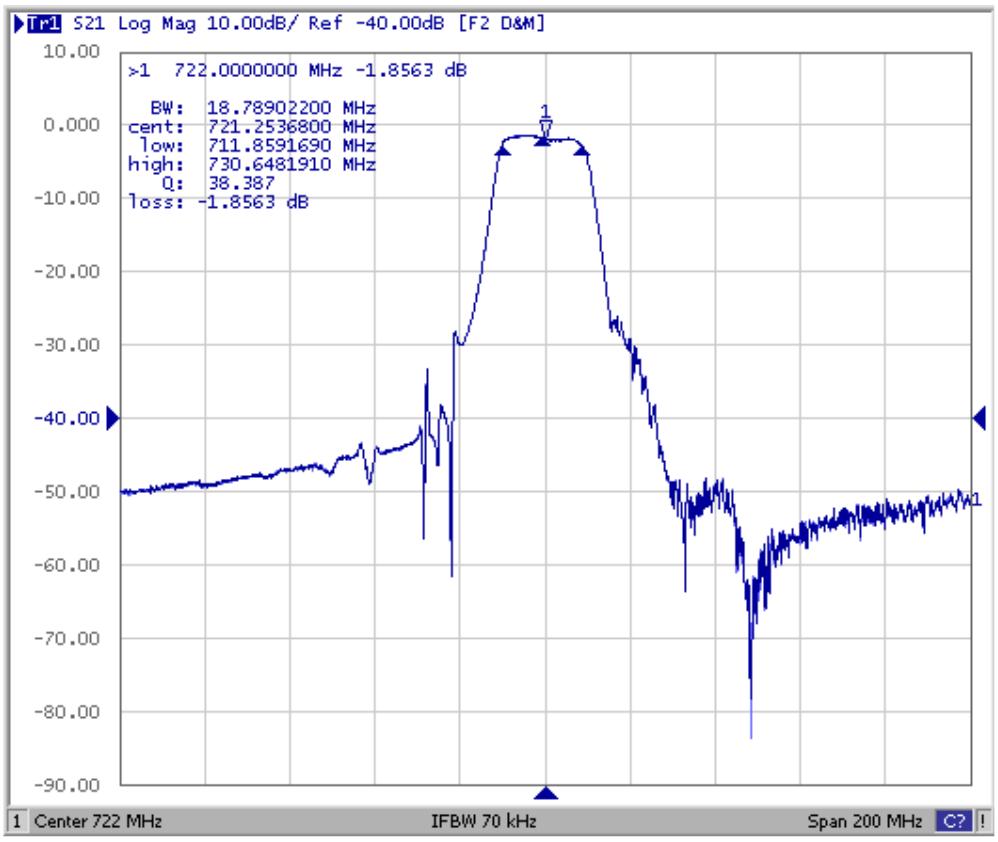
☐ **: Year/Month Code (Follow the table)**

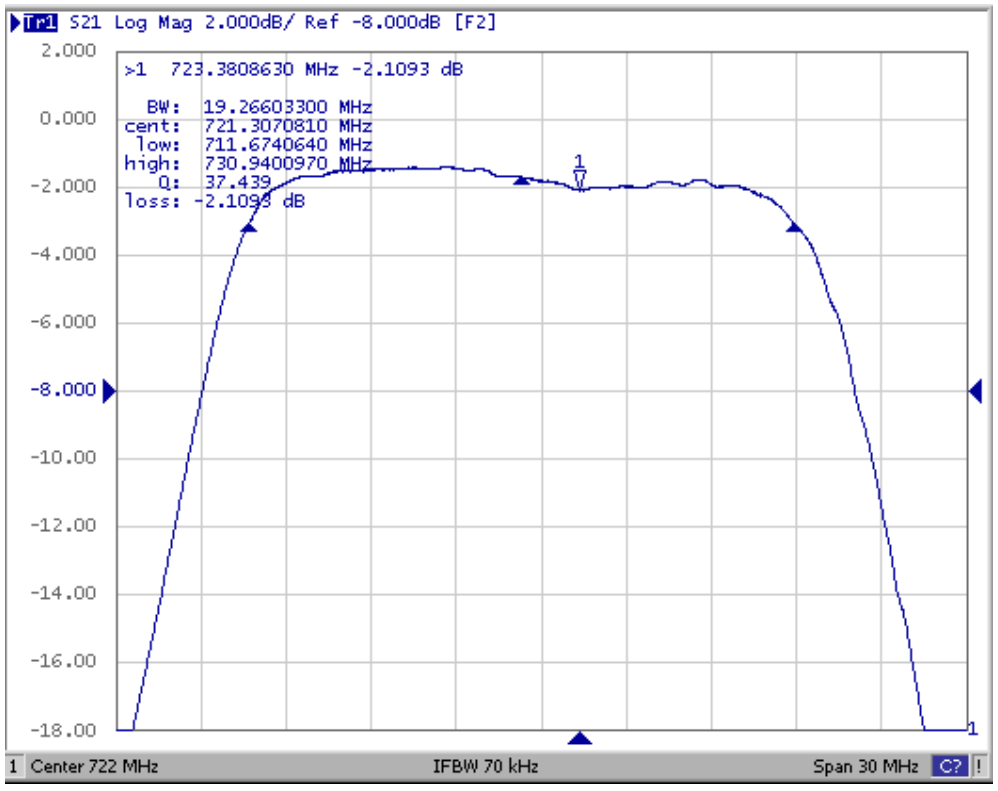
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z

D. MEASUREMENT CIRCUIT:



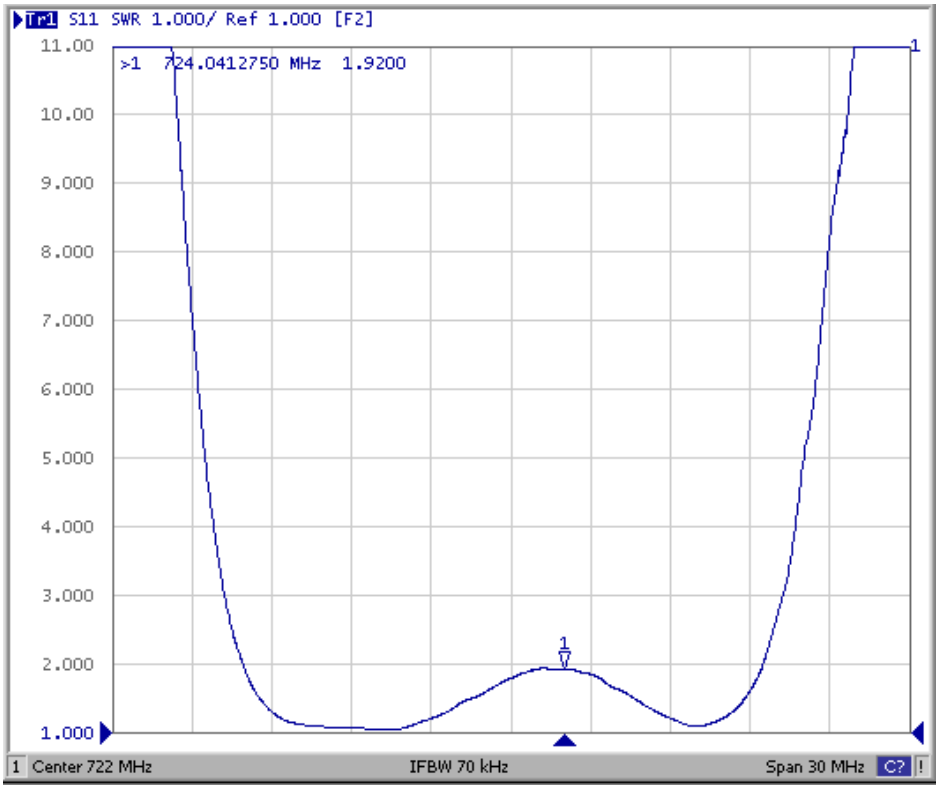
E. Frequency Characteristics :



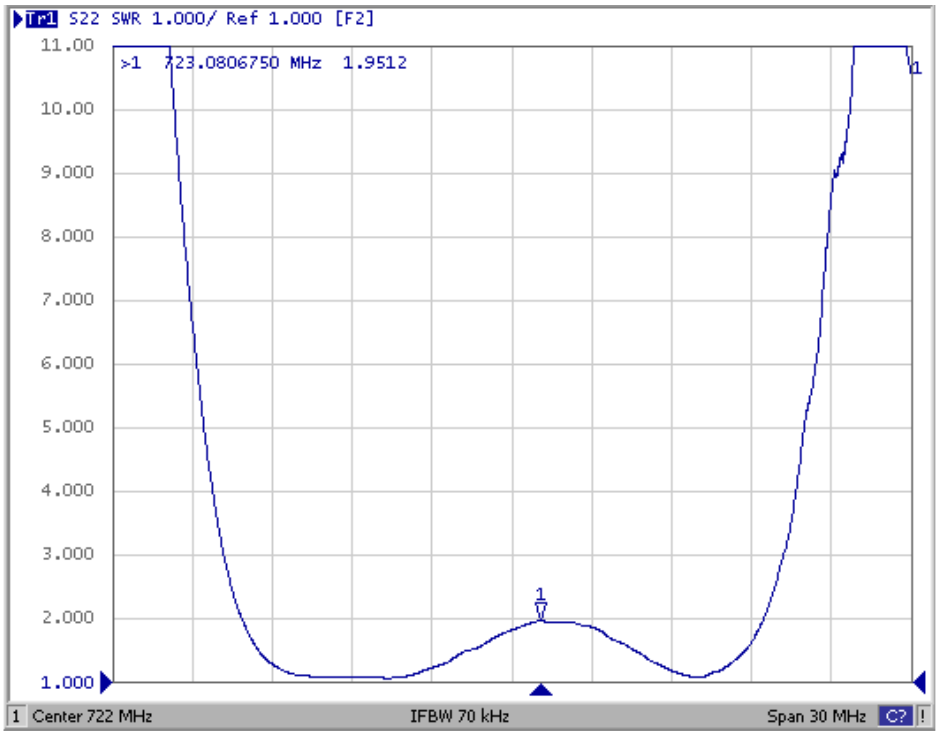


VSWR:

S11


Tr1 S11 SWR 1.000/ Ref 1.000 [F2]
>1 724.0412750 MHz 1.9200
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Center 722 MHz
IFBW 70 kHz
Span 30 MHz
C?

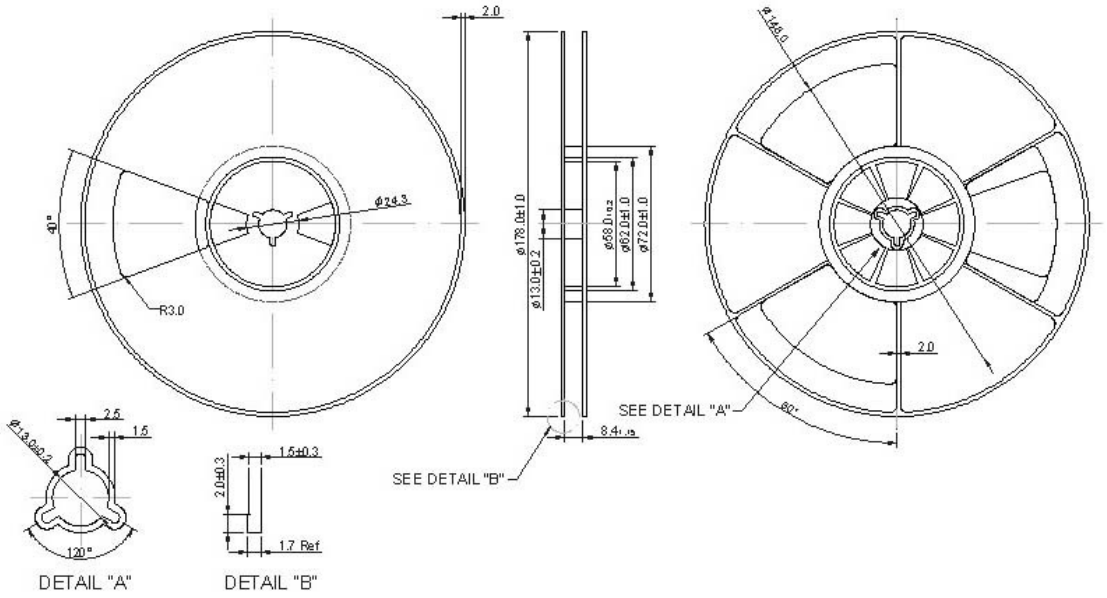
S22


Tr1 S22 SWR 1.000/ Ref 1.000 [F2]
>1 723.0806750 MHz 1.9512
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Center 722 MHz
IFBW 70 kHz
Span 30 MHz
C?

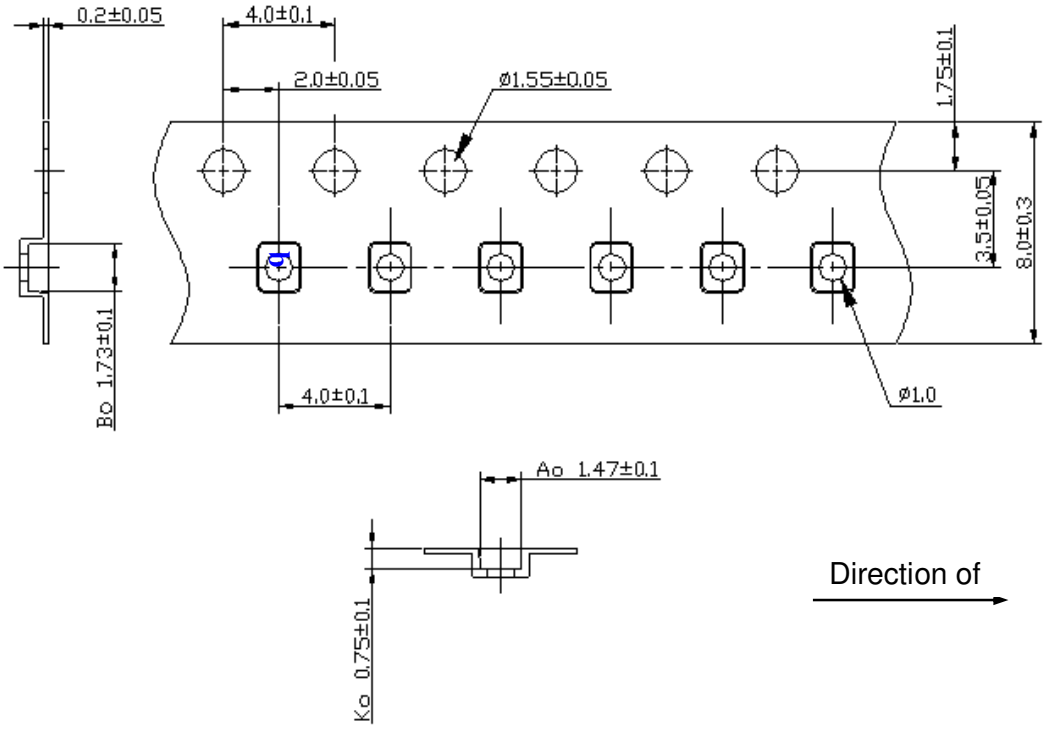
F. PACKING:

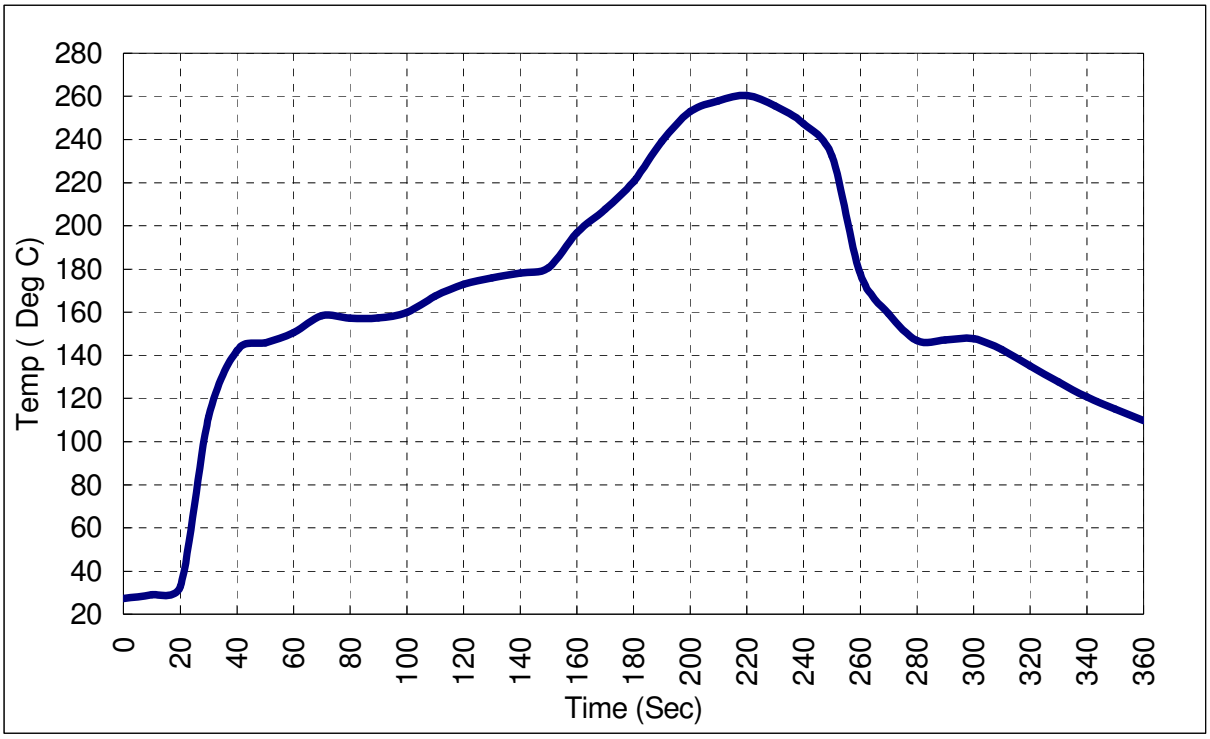
1. REEL DIMENSION

(Reel Count : 7"=3000)



2.TAPE DIMENSION



F. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.