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 Filter 1268 MHz BW 20MHz SMD 3.0X3.0 mm

TST Parts No.: TA1667A

Customer Parts No.:_____

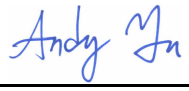
Customer signature required

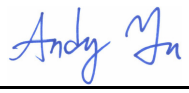
Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu 

Approval by:_____ Andy Yu 

Date:_____ 2020/02/05

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 Filter 1268MHz BW 20MHz SMD 3.0x3.0mm

MODEL NO.:TA1667A REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -50℃ to +95℃
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = balanced 200 Ω // 30nH

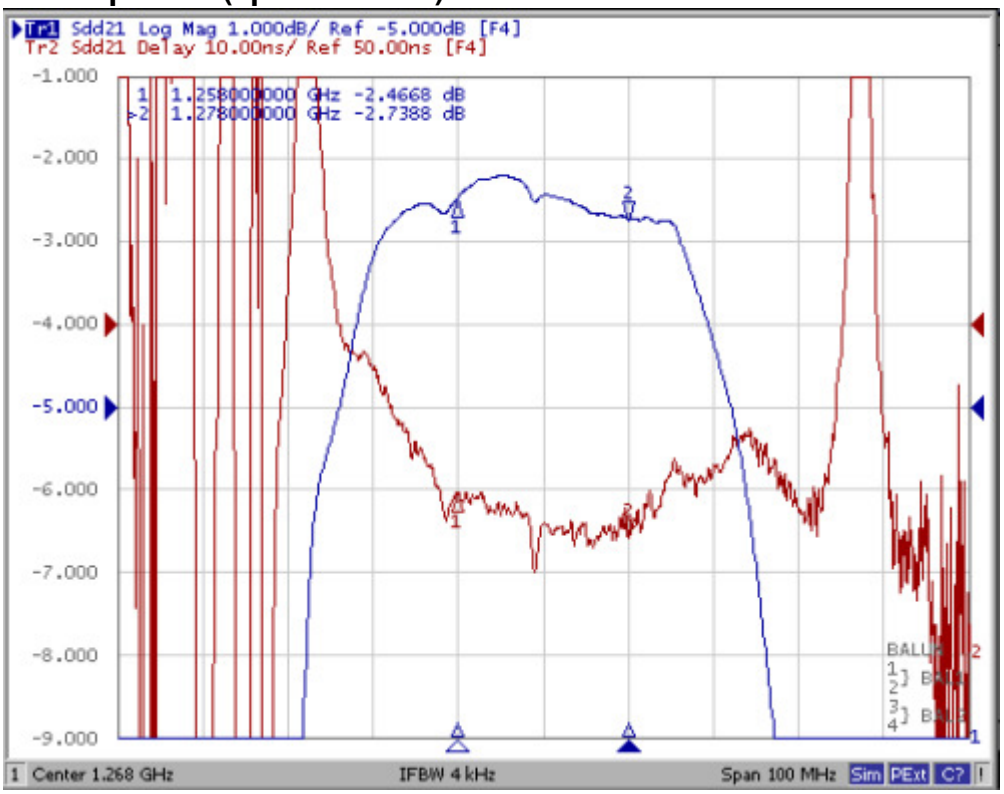
Terminating load impedance : Z_L = balanced 200 Ω // 30nH

Item		Unit	Min.	Type.	Max.	Note
Center Frequency	**Fc**	MHz	-	1268	-	-
Bandwidth at -3dB (1258~1278 MHz)		MHz	-	49	-	-
Insertion Loss (1258~1278 MHz)	**IL**	dB	-	2.7	4.0	-
Amplitude ripple (1258~1278 MHz)		dB	-	0.5	2.0	-
Group delay ripple (1258~1278 MHz)	**GD**	ns	-	8.5	15	
I/O return loss (1258~1278 MHz)		dB	8.0	10.0	-	-
Attenuation						
10 ~ 970 MHz		dB	44	55	-	-
1420 ~ 2000 MHz		dB	44	53	-	-
2000 ~ 3000 MHz		dB	38	51	-	
Package size		mm	SMD 3.0x3.0			

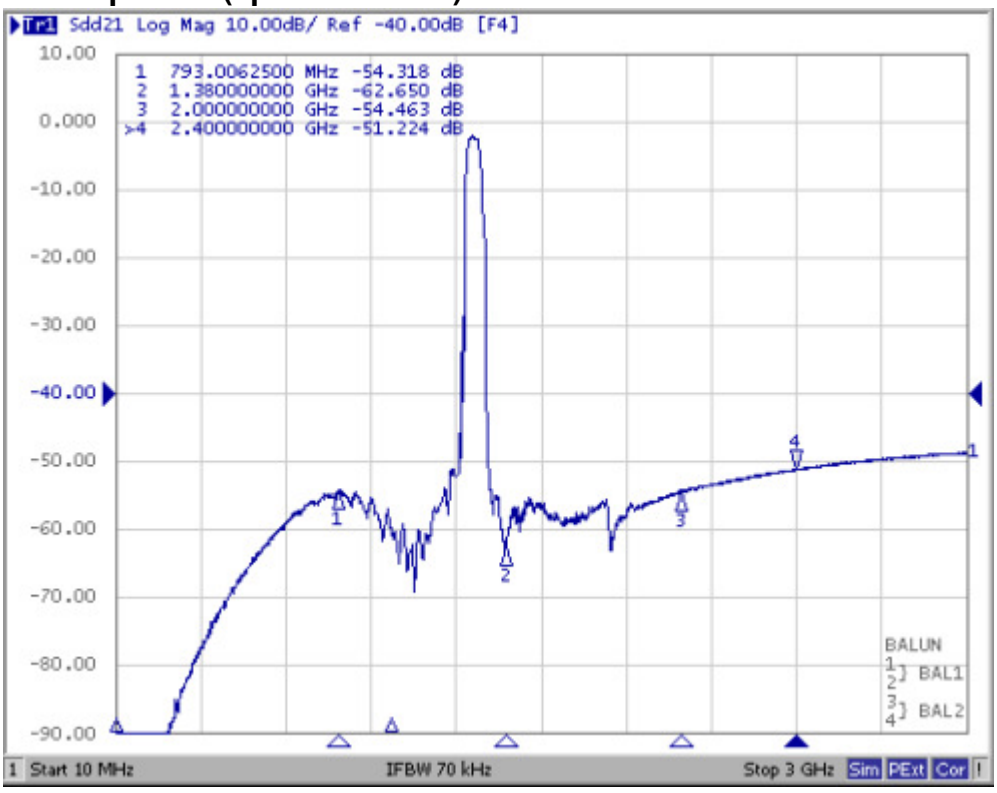
C. FREQUENCY CHARACTERISTICS:

Sdd21 response: (span 300MHz)

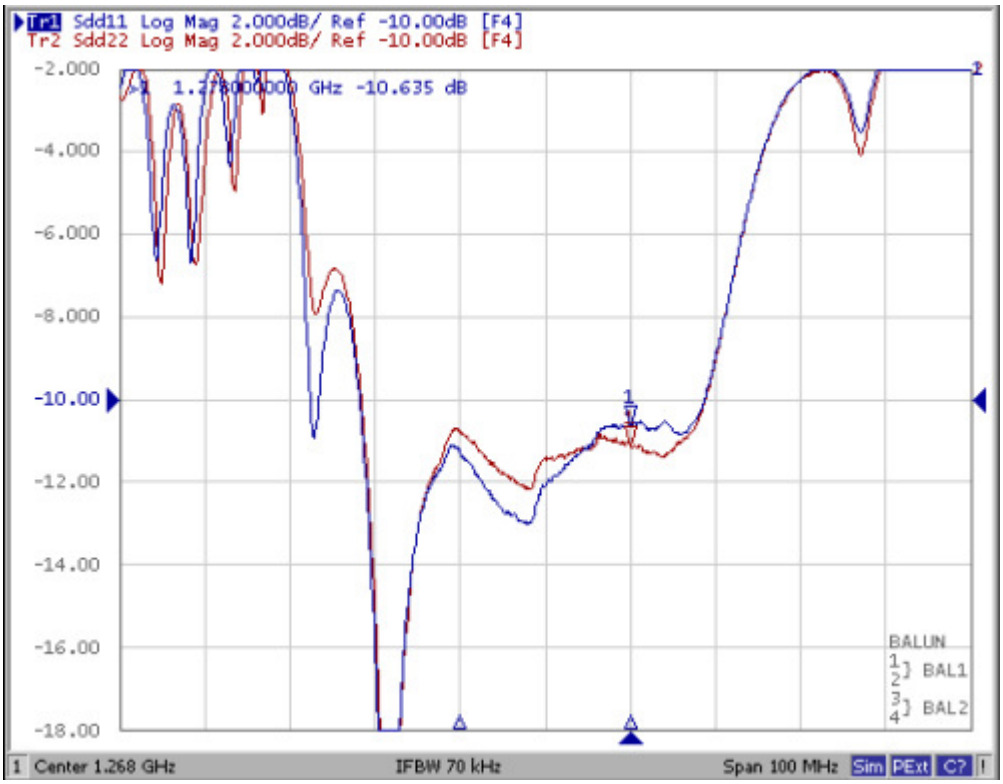
Sdd21 response: (span 100MHz)



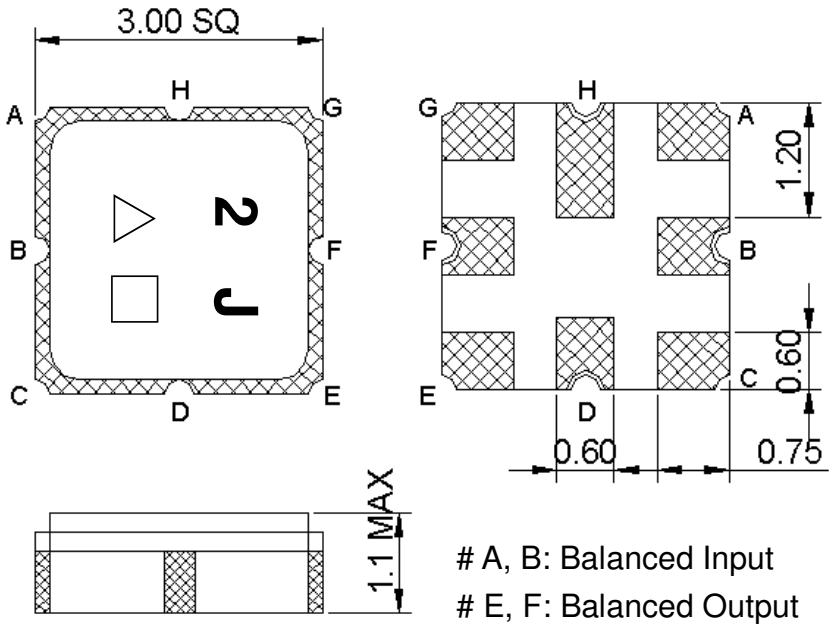
Sdd21 response: (span 3000MHz)



S11&Sdd22 Return loss: (span 100MHz)



D.OUTLINE DRAWING:



A, B: Balanced Input
E, F: Balanced Output
C, D, G, H: Ground

△:Year code

□: Date code (Follow the table provided by planner each year.)

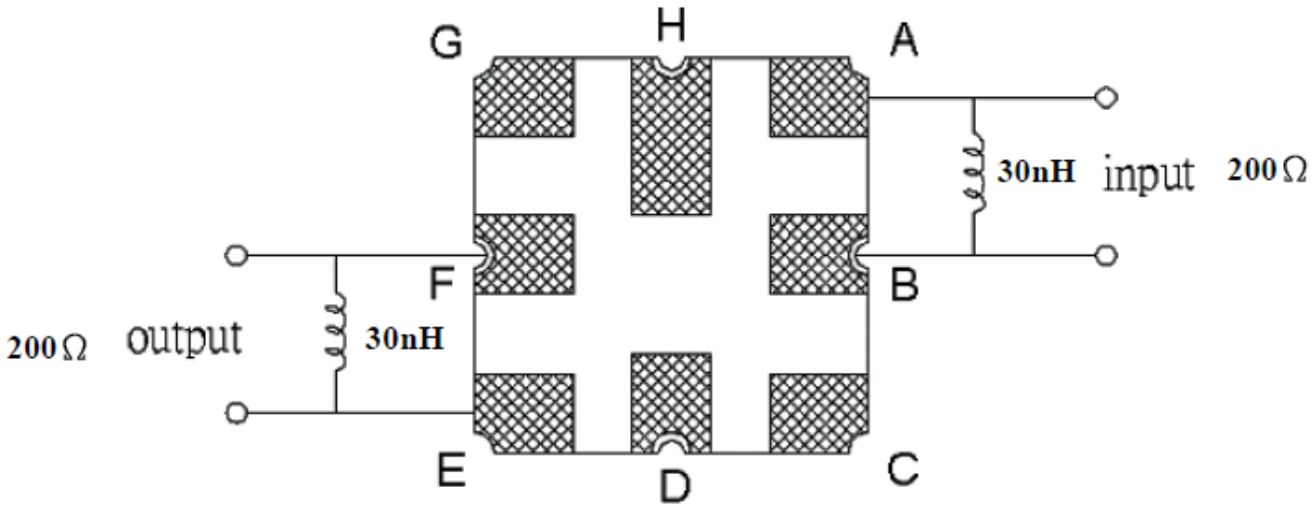
Product / Year Code- 2year cycle

Year	2017 2019 2021 2023	2018 2020 2022 2024
Product Code	A	a

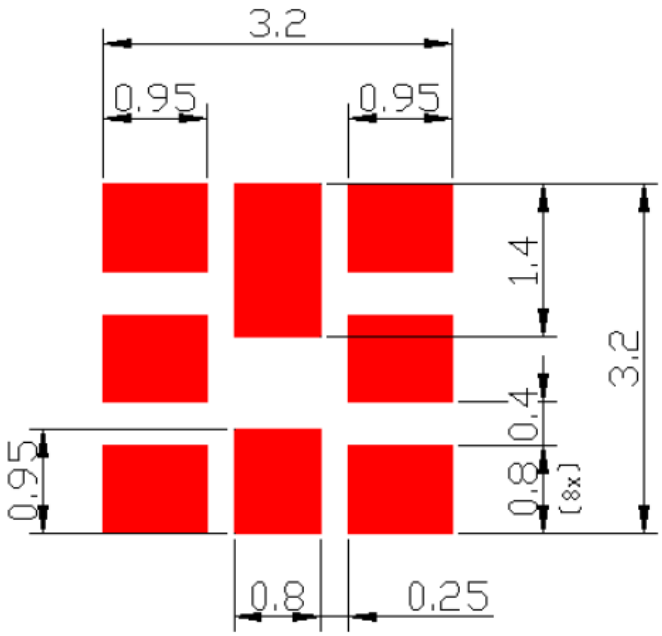
Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	**WK15**	**WK16**	**WK17**	**WK18**	**WK19**	**WK20**	**WK21**	**WK22**	**WK23**	**WK24**	**WK25**	**WK26**
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	**WK28**	**WK29**	**WK30**	**WK31**	**WK32**	**WK33**	**WK34**	**WK35**	**WK36**	**WK37**	**WK38**	**WK39**
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	**WK41**	**WK42**	**WK43**	**WK44**	**WK45**	**WK46**	**WK47**	**WK48**	**WK49**	**WK50**	**WK51**	**WK52**
n	o	p	q	r	s	t	u	v	w	x	y	z

E. MEASUREMENT CIRCUIT:



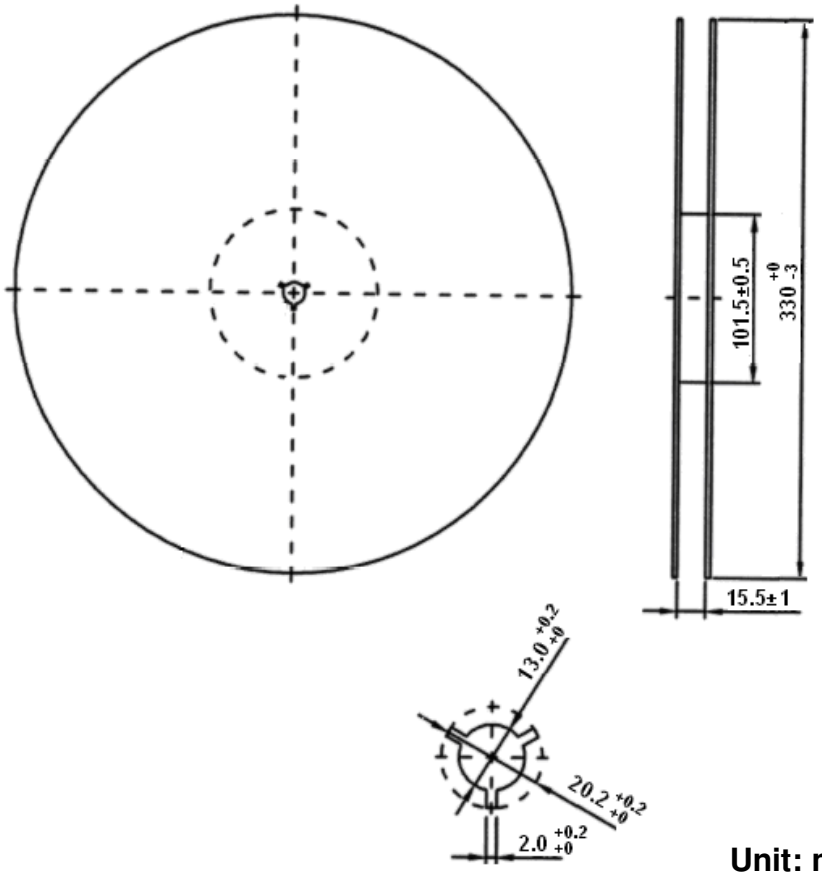
F. PCB Footprint:



G. PACKING:

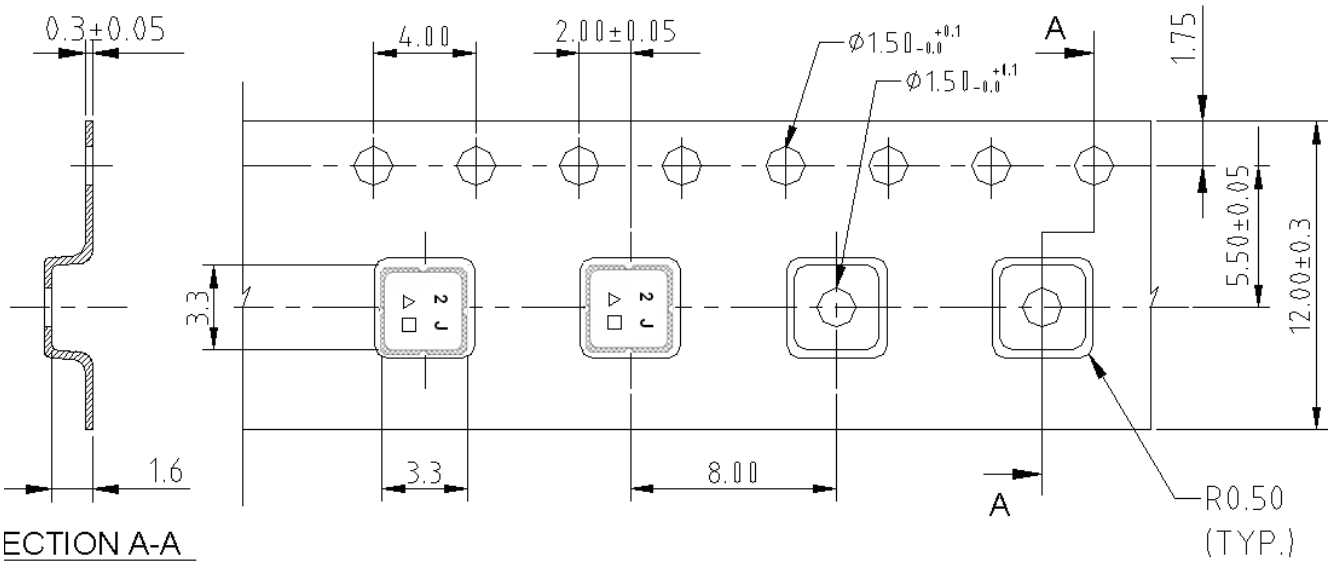
1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



Unit: mm

2. TAPE DIMENSION



H. 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 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.