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 Description: SAW Filter 1030MHz SMD 3.8X3.8 mm(BW=30MHz)

TST Part No.: TA0973A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Sam Lin_____

Approved by:_____Bob Chau_____

Date:_____3/30/2018_____

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 1030 MHz

MODEL NO.: TA0973A REV. NO：6.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: : -30℃ to +85℃
4. Storage Temperature: -40℃ to +85℃

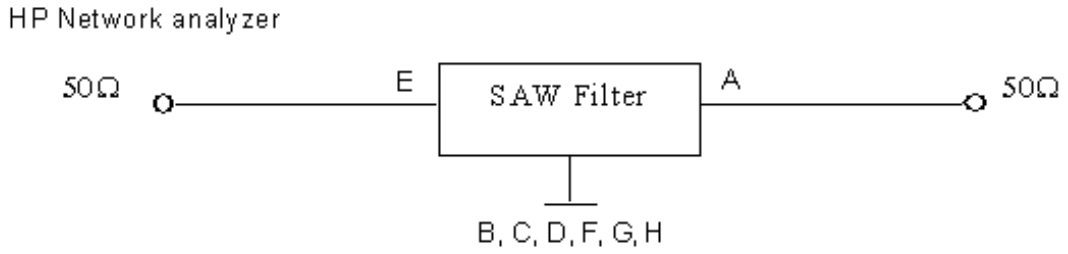
RoHS Compliant
Lead free
Lead-free soldering

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

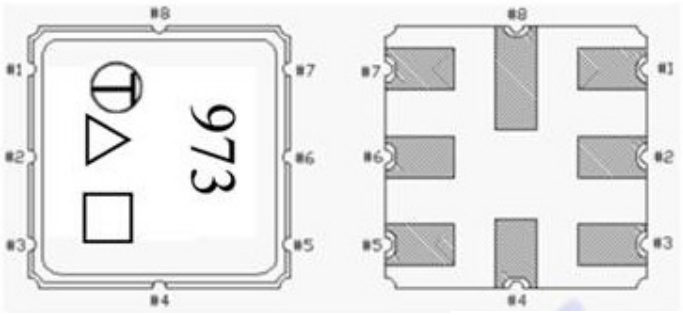
B. ELECTRICAL CHARACTERISTICS:

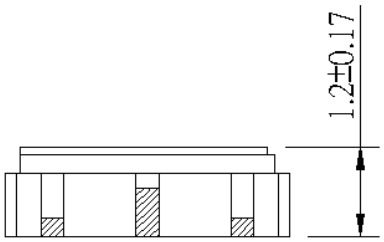
Characteristics (at 25°C)		Min.	Typ.	Max.
Center frequency	**Fc** (dB)	-	1030	-
Insertion loss within 1015 ~1045 MHz	**IL** (dB)	-	2.2	3.0
Amplitude ripple (p-p) within1025 ~ 1035 MHz	(dB)	-	0.57	1.0
Attenuation (Reference level from 0 dB)				
DC ~ 910 MHz	(dB)	25.0	29.5	-
1090 ~ 1300 MHz	(dB)	25.0	36.5	-
VSWR within 1015 ~1045 MHz		-	1.45	2.1
Source impedance	Zs (Ω)	-	50	-
Load impedance	Z_L (Ω)	-	50	-

C. MEASUREMENT CIRCUIT:



D.OUTLINE DRAWING:



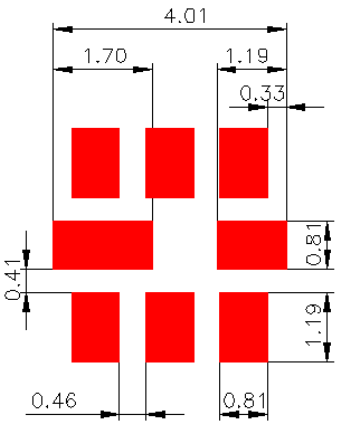


A：Output
E：Input
B, C, D, F, G, H：Ground
△：Year Code
□：Date Code
Unit：mm

Year	2011	2012
	:	:
	2019	2020
Date Code	A	a

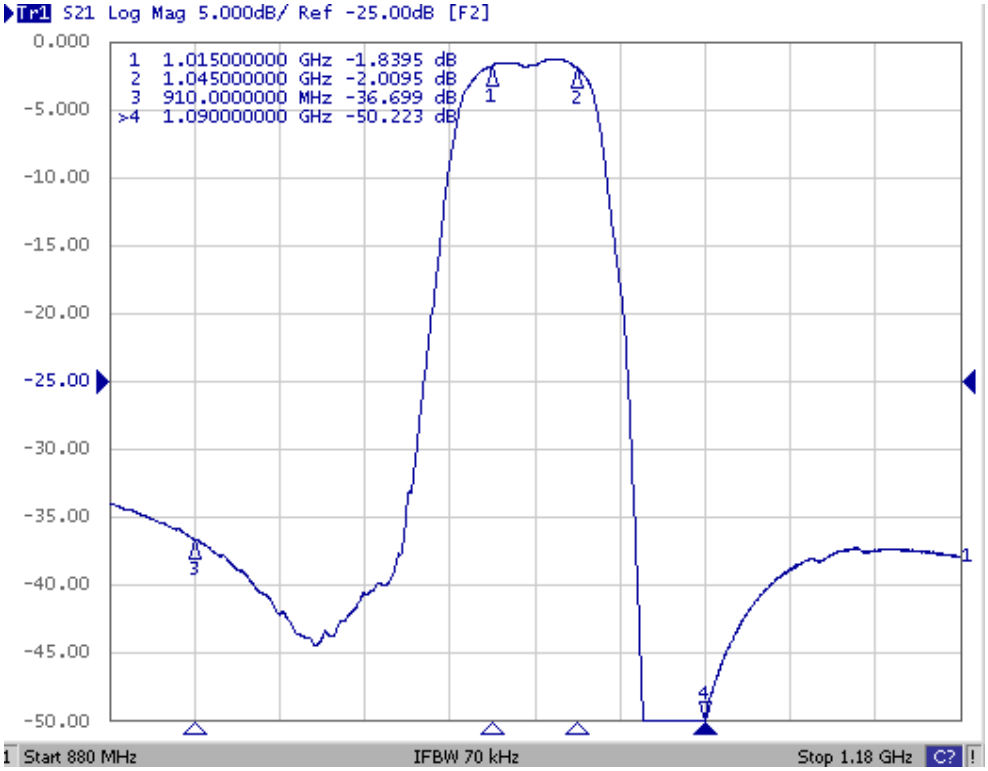
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

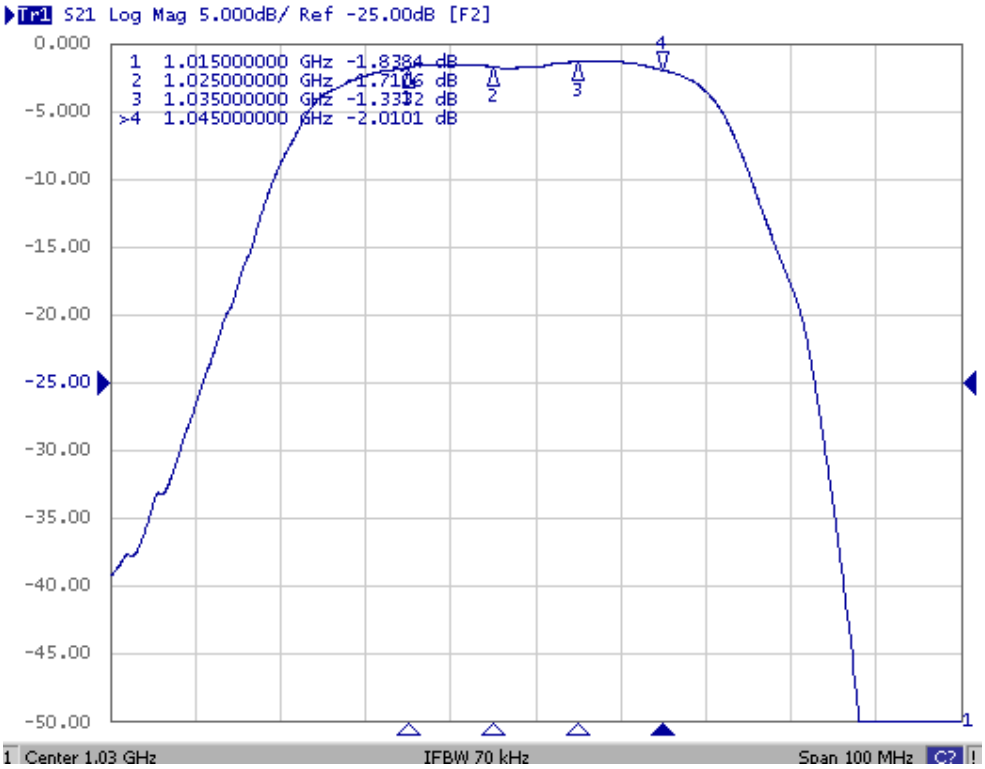
E. PCB FOOTPRINT：

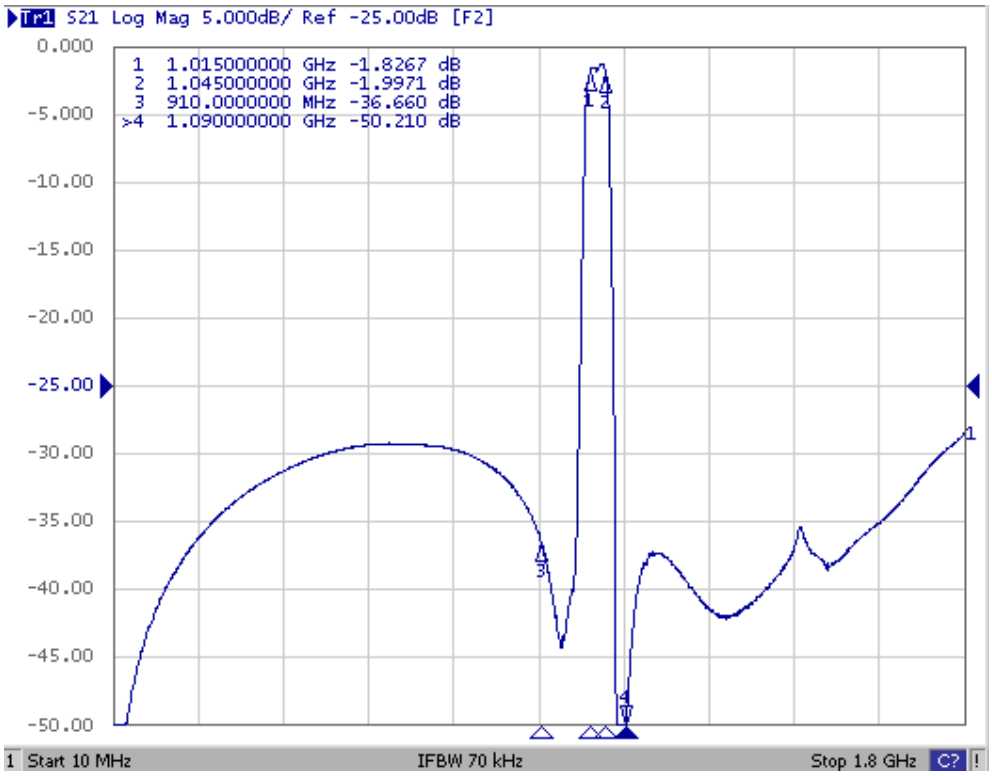


F. FREQUENCY CHARACTERISTICS:

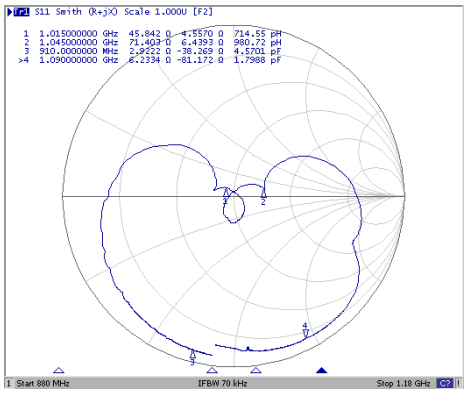
Transfer function

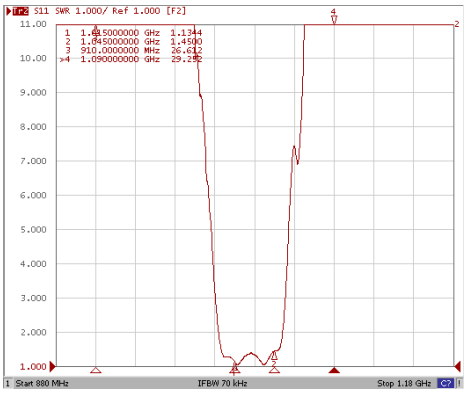




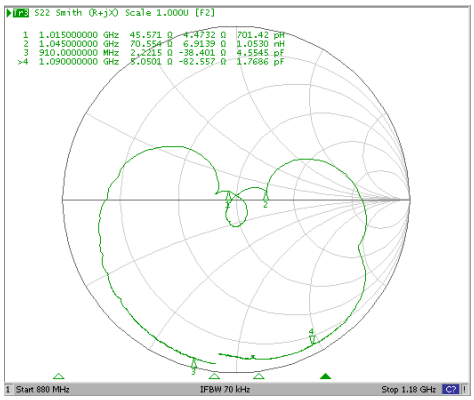

Tr1 S21 Log Mag 5.000dB/ Ref -25.00dB [F2]
1 1.015000000 GHz -1.8267 dB
2 1.045000000 GHz -1.9971 dB
3 910.0000000 MHz -36.660 dB
>4 1.090000000 GHz -50.210 dB
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
-45.00
-50.00
1 Start 10 MHz
IFBW 70 kHz
Stop 1.8 GHz

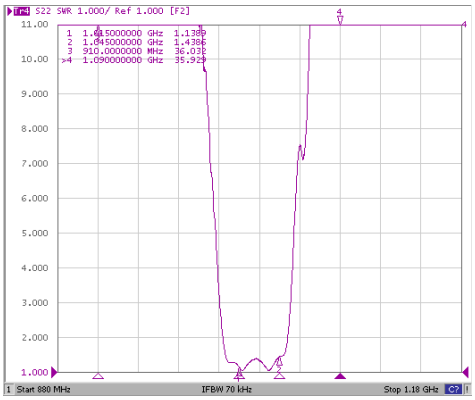
S11:


Tr1 S11 Smith (R+jX) Scale 1.000U [F2]
1 1.015000000 GHz 45.842 Ω 4.5570 Ω 714.55 pH
2 1.045000000 GHz 71.403 Ω 6.4393 Ω 980.72 pH
3 910.0000000 MHz 2.2922 Ω -38.269 Ω 4.5701 pF
>4 1.090000000 GHz 6.2334 Ω -81.172 Ω 1.7988 pF
1 Start 880 MHz
IFBW 70 kHz
Stop 1.18 GHz


Tr2 S11 SWR 1.000/ Ref 1.000 [F2]
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 880 MHz
IFBW 70 kHz
Stop 1.18 GHz

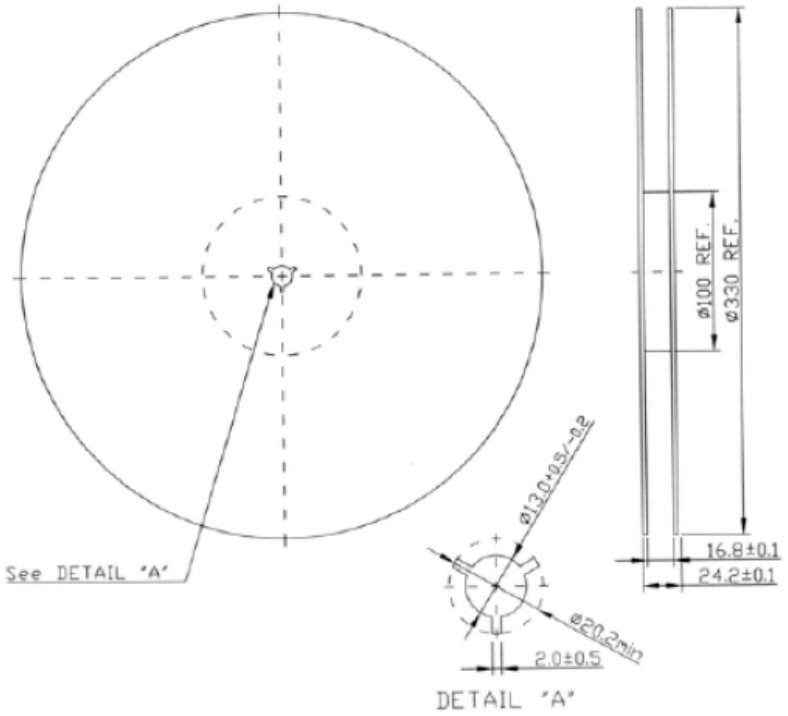
S22:


Tr3 S22 Smith (R+jX) Scale 1.000U [F2]
1 1.015000000 GHz 45.571 Ω 4.4732 Ω 701.42 pH
2 1.045000000 GHz 70.554 Ω 6.9139 Ω 1.0530 nH
3 910.0000000 MHz 2.2215 Ω -38.401 Ω 4.5545 pF
>4 1.090000000 GHz 8.0501 Ω -82.557 Ω 1.7686 pF
1 Start 880 MHz
IFBW 70 kHz
Stop 1.18 GHz

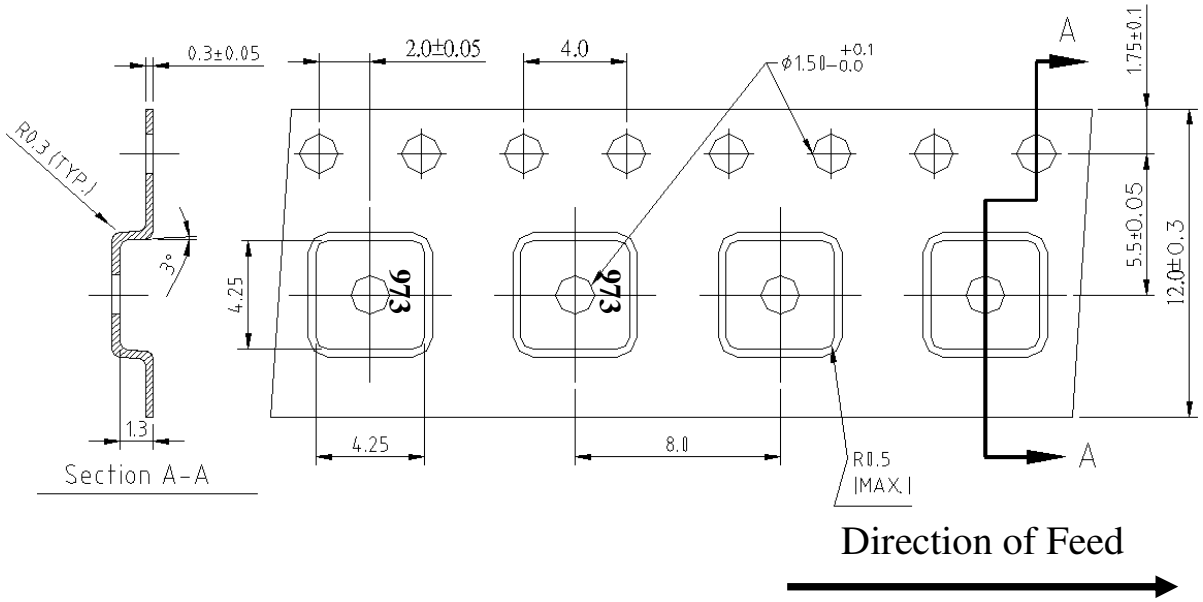

Tr4 S22 SWR 1.000/ Ref 1.000 [F2]
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 880 MHz
IFBW 70 kHz
Stop 1.18 GHz

G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. <u>RECOMMENDED REFLOW PROFILE</u>:

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.