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 899 MHz SMD 3.0x3.0 mm (BW=8 MHz)

TST Part No.: TA1083B

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: David Chang

Approved by: Andy Yu

Date: 2018/07/03

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 899 MHz

MODEL NO.: TA1083B REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 15 dB_m
2.DC voltage: 5 V
3.Operating Temperature: -30°C to +80°C
4.Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(**MSL1**)

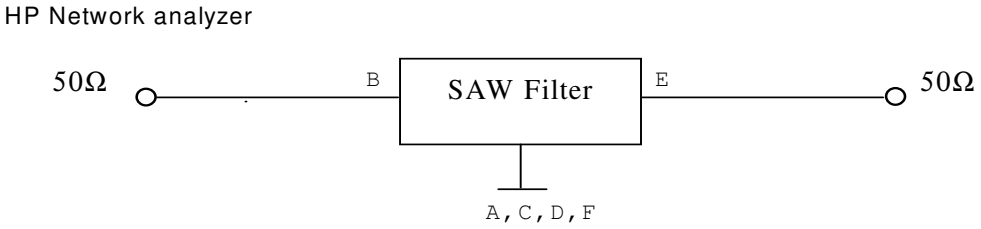
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (**ESD**)

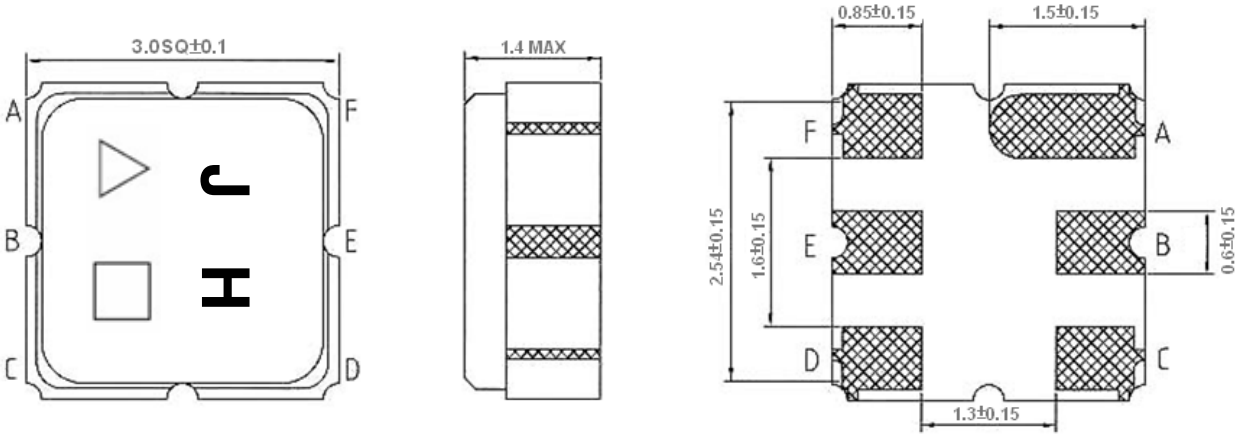
B. ELECTRICAL CHARACTERISTICS:

Item		Unit	Min.	Type.	Max.
Center frequency	**Fc**	MHz	-	899	-
Insertion Loss (895~903 MHz)	**IL**	dB	-	2.6	3.5
Amplitude Ripple (895~903 MHz)		dB	-	0.4	2.0
Input/Output VSWR (895~903 MHz)		-	-	1.7	2.2
Attenuation (Reference level from 0 dB)					
10 ~ 869 MHz		dB	37	53	-
930 ~ 935 MHz		dB	37	53	-
935 ~ 960 MHz		dB	37	54	-
960 ~ 1600 MHz		dB	35	53	-
1600 ~ 2600 MHz		dB	31	36	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

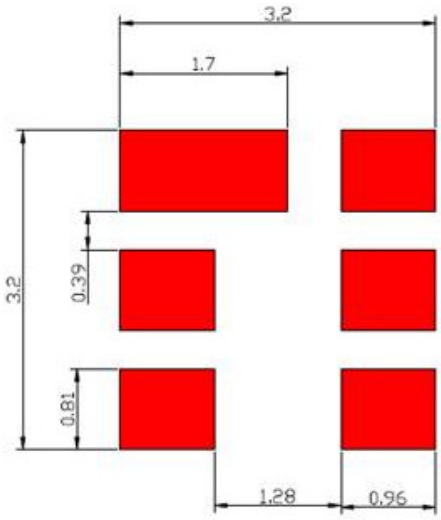
△ : Year Code (2011->1, 2012->2, …, 2019->9, 2020->0)

□ : Date Code

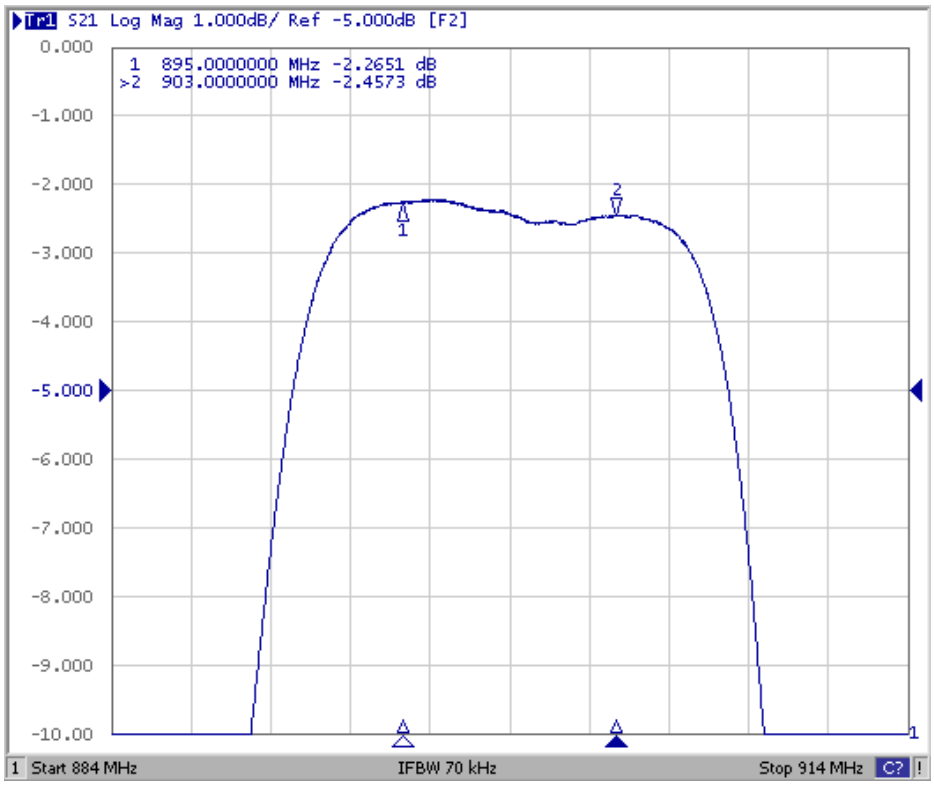
Date Code Table:

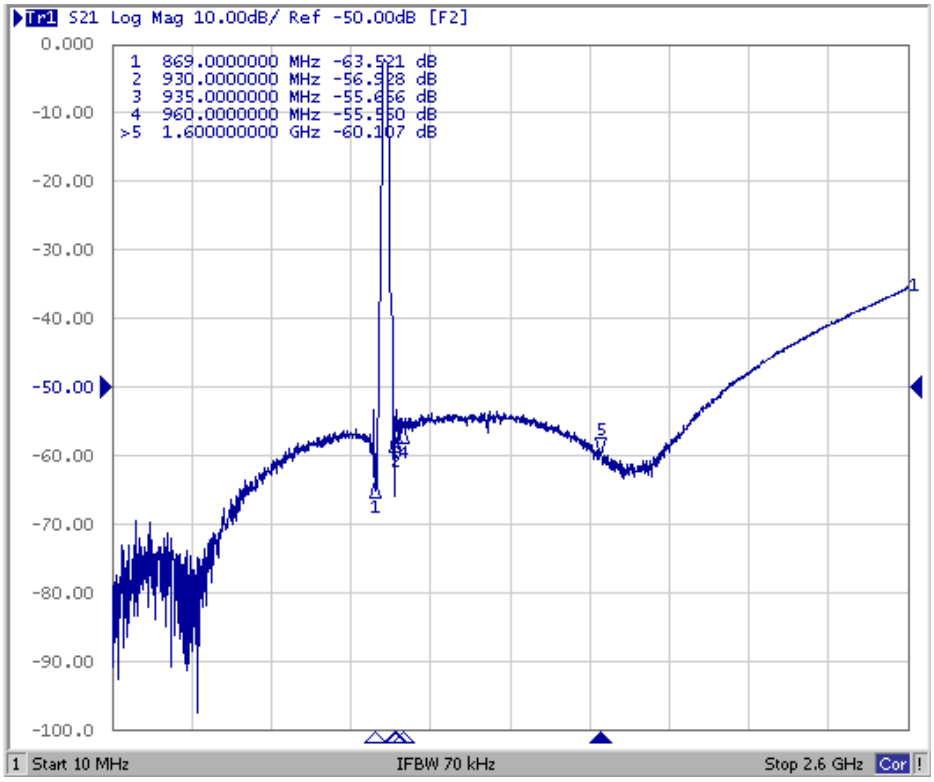
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. PCB Footprint:



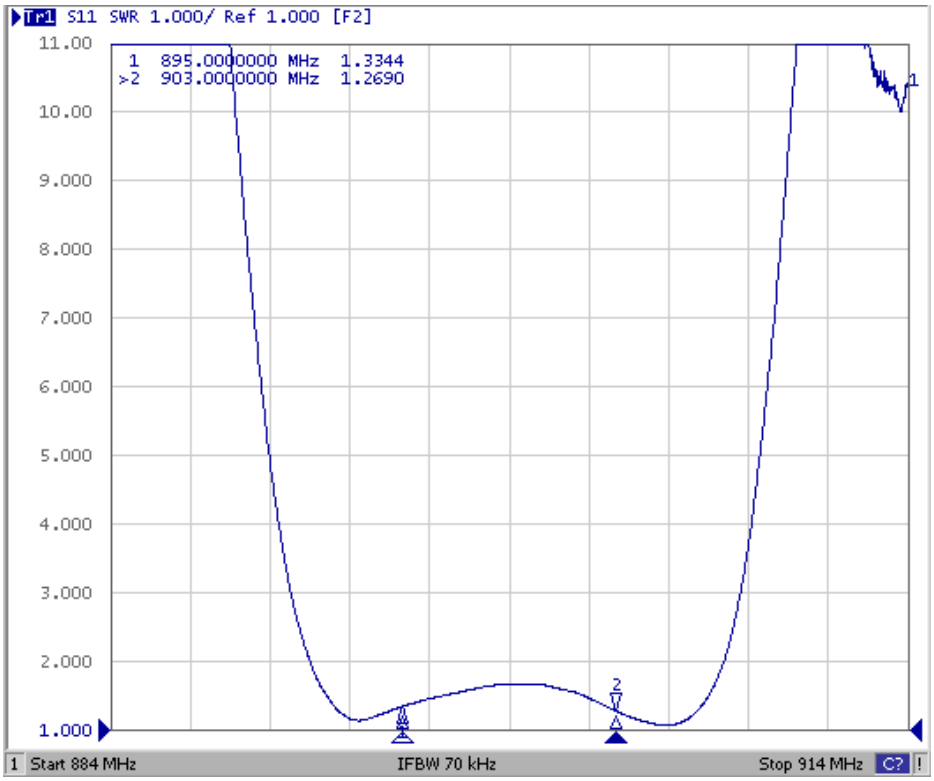
F. Frequency Characteristics:



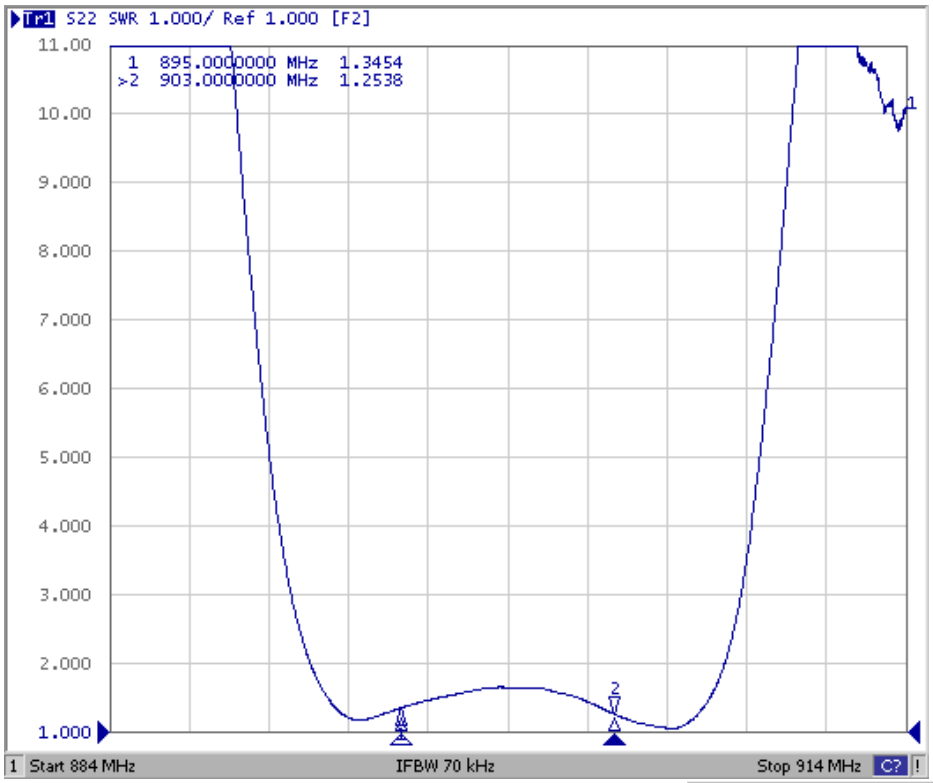


Reflection Functions:

S11



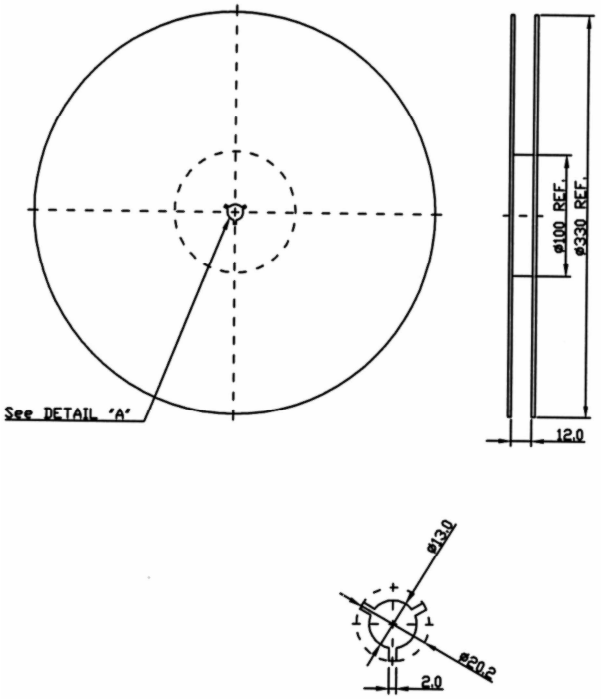
S22



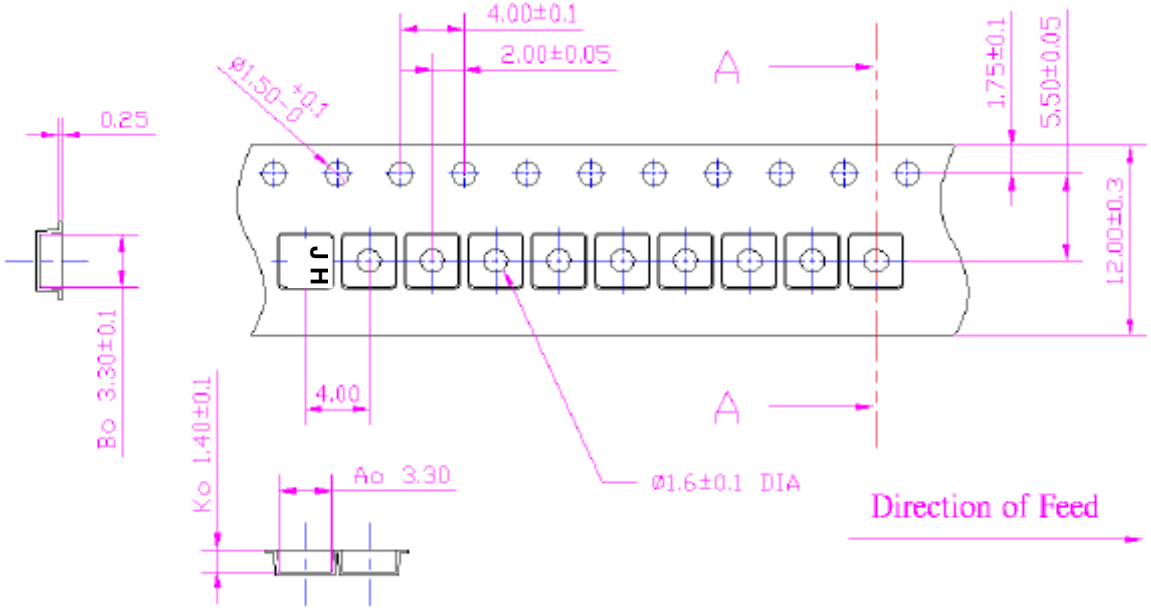
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



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.