



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 869.3 MHz SMD 3.0x3.0 mm (BW=1.4 MHz)

TST Part No.: TA1974A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang 

Approved by: _____ Bob Chau 

Date: _____ 2016/03/01

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 869.3 MHz

MODEL NO.: TA1974A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 6 V
3. Operating Temperature: -10°C to +55°C
4. Storage Temperature: -40°C to +85°C

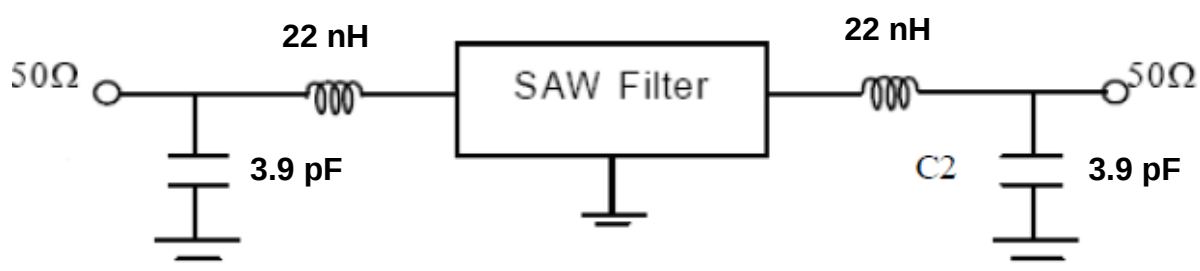
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

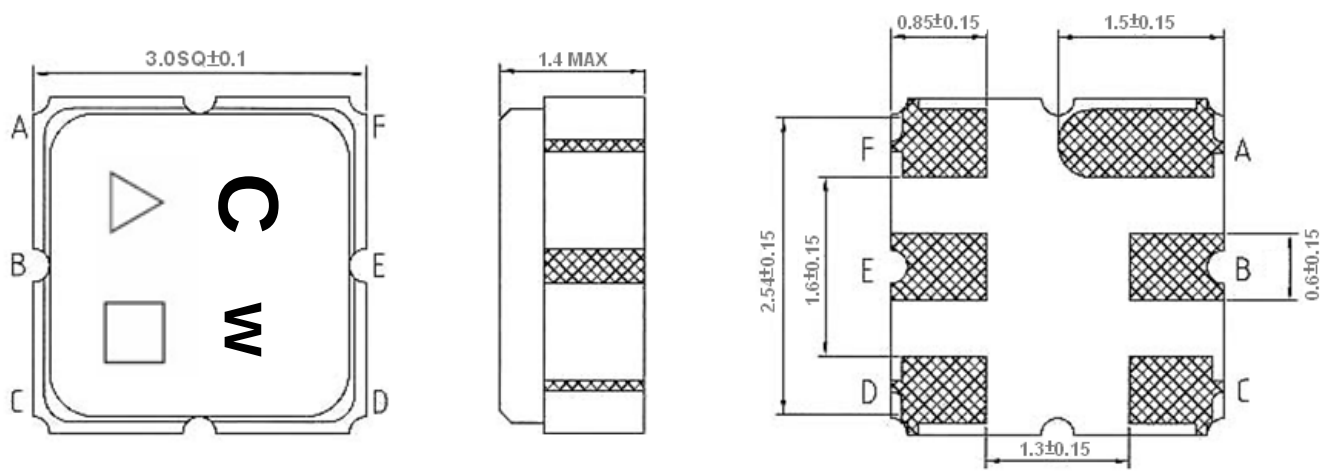
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	869.3	-
Minimum insertion loss ILmin incl. loss in matching elements	dB	-	2.9	3.5
Minimum insertion loss ILmin excl. loss in matching elements	dB	-	2.6	3.2
Passband (relative to ILmin) 868.7~870 MHz	dB	-	1.0	3.0
Passband (relative to ILmin) 868.6~870 MHz	dB	-	1.0	4.0
Attenuation (relative to ILmin)				
10 ~ 700 MHz	dB	45	54	-
700 ~ 760 MHz	dB	43	49	-
760 ~ 820 MHz	dB	38	43	-
820 ~ 860 MHz	dB	25	36	-
860 ~ 867 MHz	dB	10	24	-
867.5 ~ 868 MHz	dB	7	14	-
870.6 ~ 872 MHz	dB	5.5	14	-
872 ~ 876 MHz	dB	12	17	-
876 ~ 890 MHz	dB	20	26	-
890 ~ 910 MHz	dB	29	33	-
910 ~ 1000 MHz	dB	36	41	-
1000 ~ 1300 MHz	dB	50	54	-
1300 ~ 2000 MHz	dB	48	63	-
2000 ~ 2500 MHz	dB	45	74	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



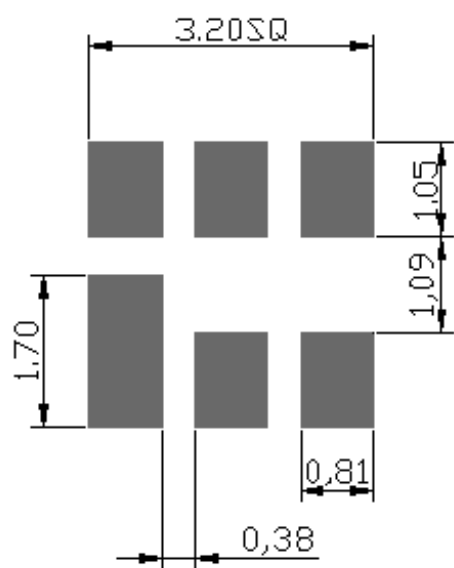
B: Input
E: Output
A, C, D, F: Ground
Unit: mm

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

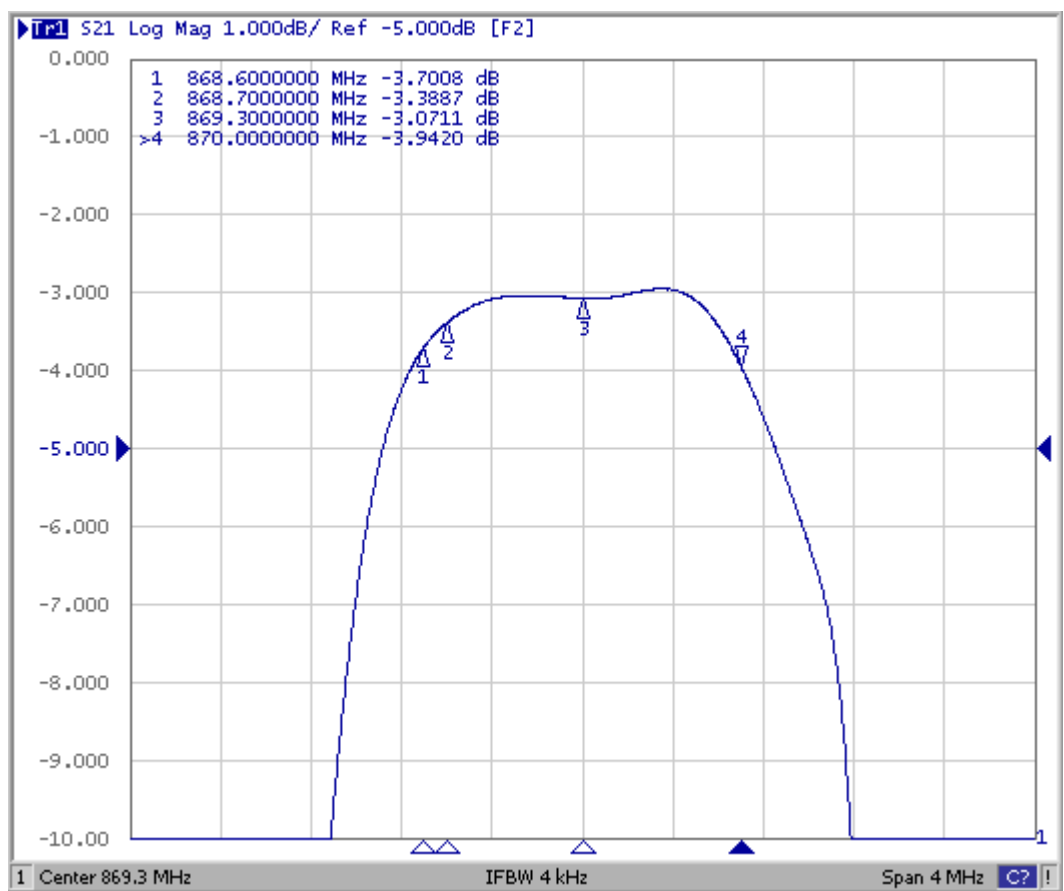
Date Code Table:

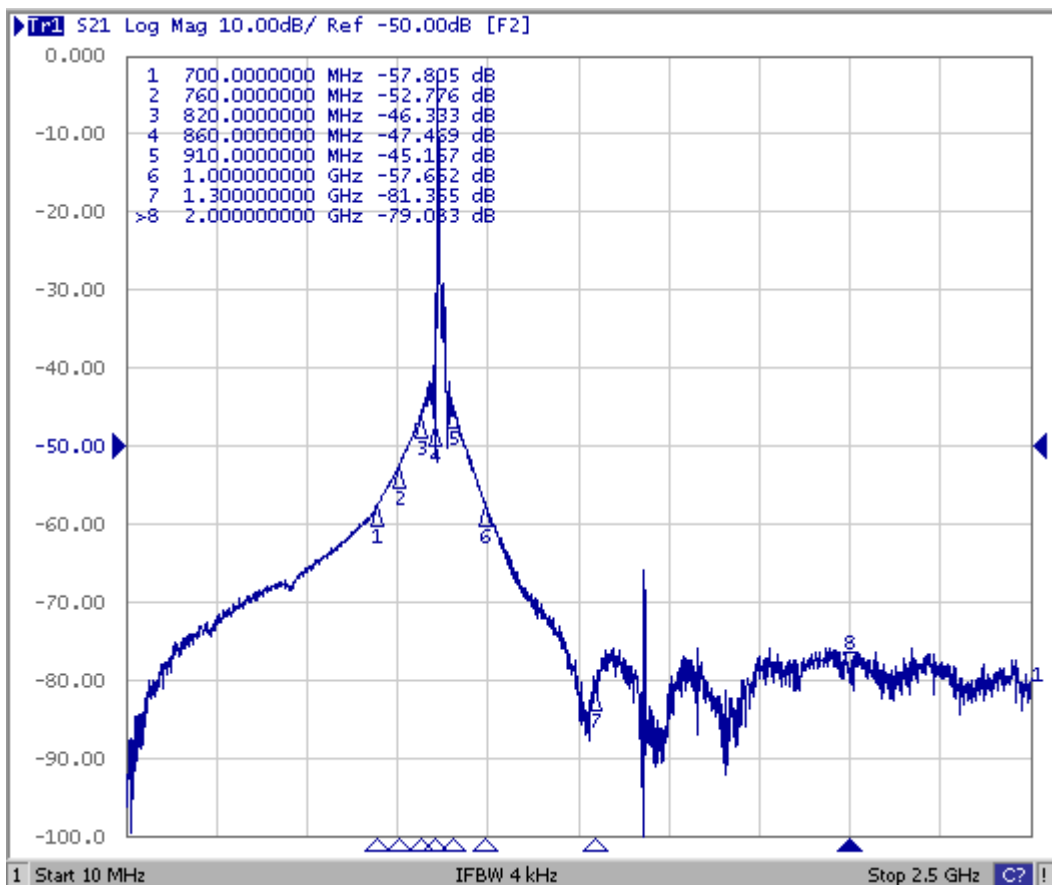
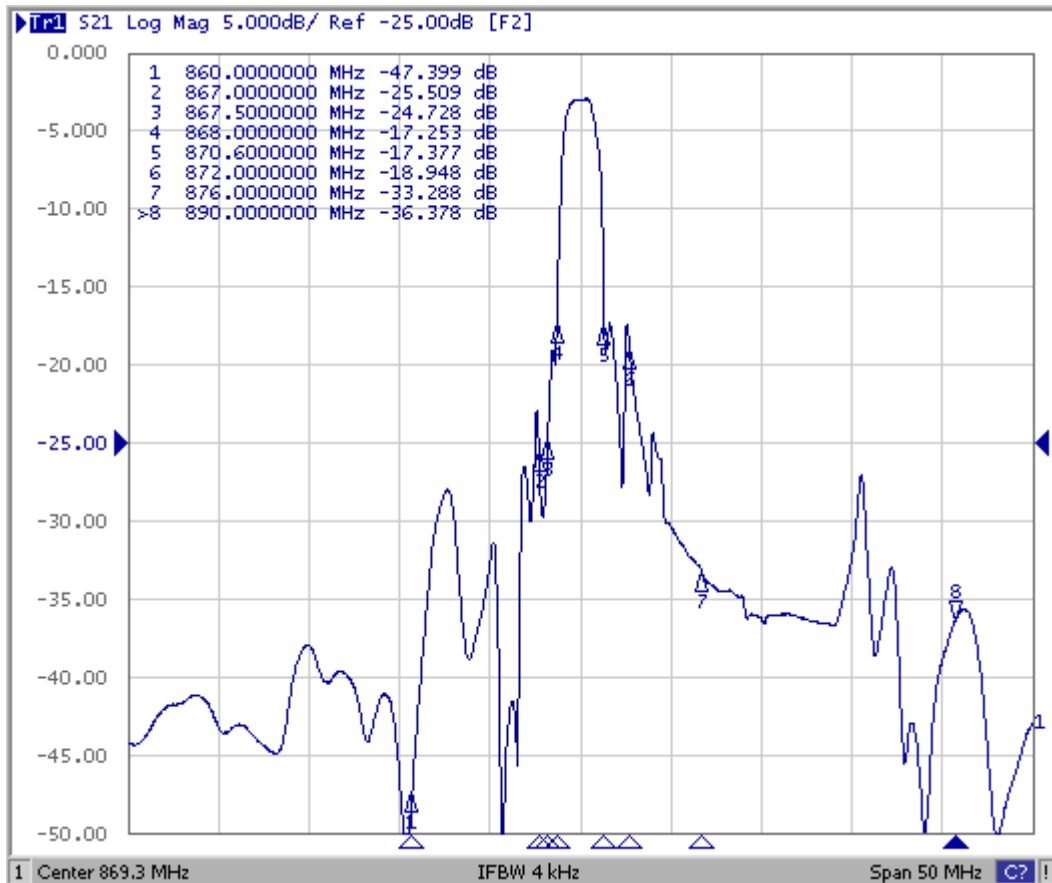
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

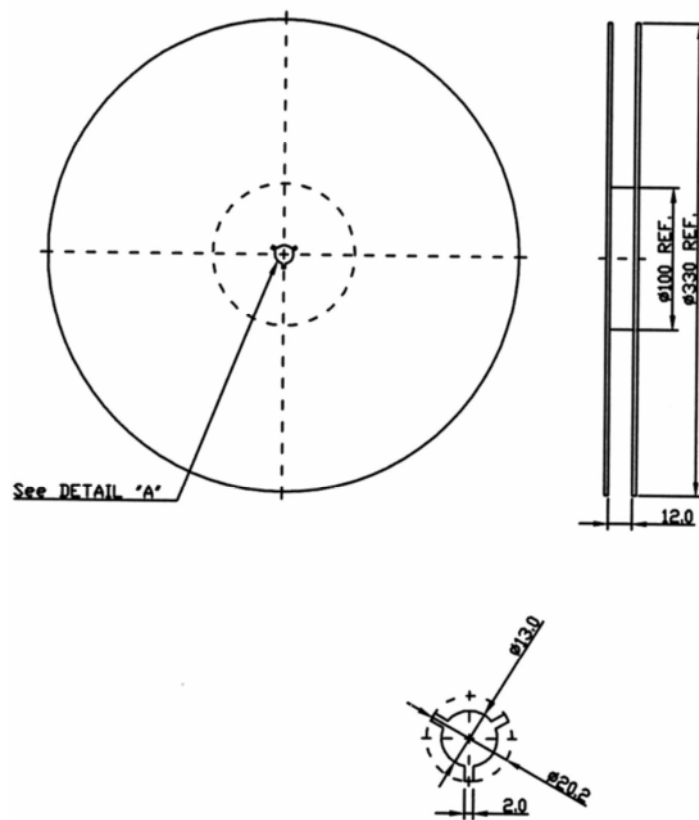




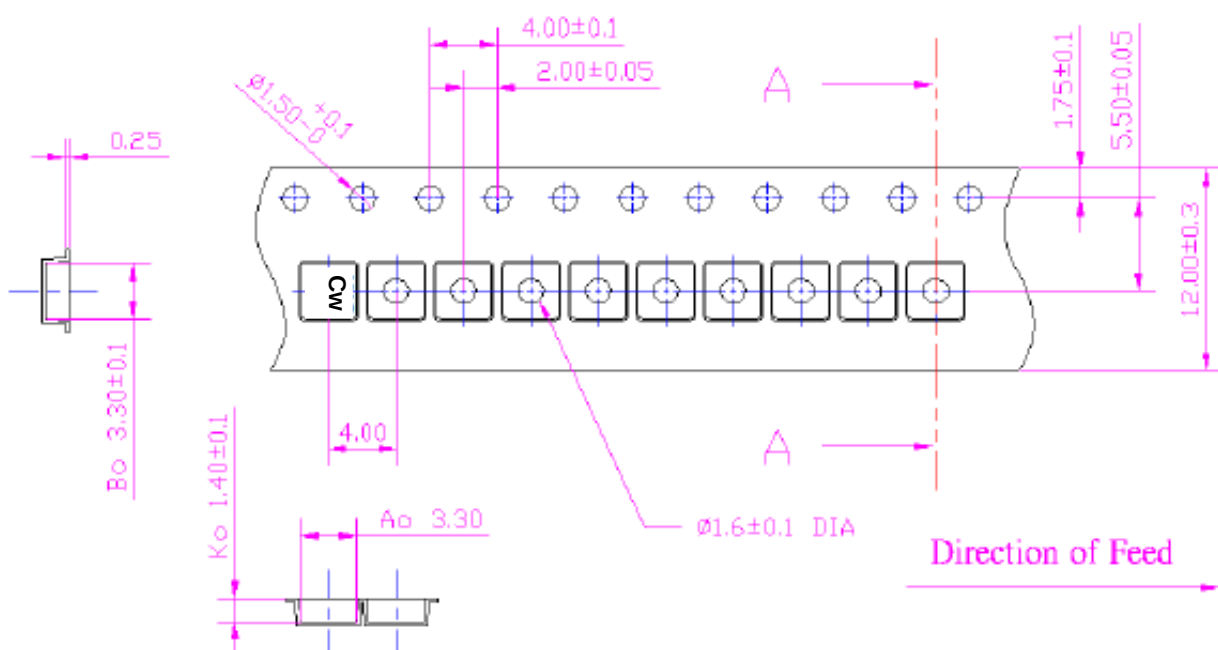
G. PACKING:

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

