

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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: 868.6 MHz 1.2MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Parts No.: TA2131A

Customer Parts No.:_____

	Company:		
	Division:		
	Approved by :		
	Date:		
L			Kosuma Jee
Checked by:		Kazuma Lee	Port
Approval by:			plechan
Dat	te:	5/8/2017	

- 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 868.6 MHz

MODEL NO.: TA2131A

A. MAXIMUM RATING:

- 1. Input Power Level: 10 dBm
- 2. DC Voltage : 0V
- 3. Operating Temperature: -20 ℃ to +70 ℃
- 4. Storage Temperature: -40 ℃ to +85 ℃

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25 ℃

Item	Unit	Min.	Тур.	Max.	
Center frequency	Fc	MHz	•	868.6	-
3dB BW		MHz	-	1.65	-
Minimum insertion loss	IL(min)				
Incl. loss of matching elements *1)		dB	-	2.80	3.50
Passband (relative to ILmin) *1)					
868 ~ 869.2 MHz		dB	-	1.8	3.0
Attenuation (relative to ILmin) *1)					
10.00 ~ 820.00	MHz	dB	40	45	-
820.00 ~ 859.00	MHz	dB	28	41	-
859.00 ~ 866.60	MHz	dB	18	23	-
866.60 ~ 867.20	MHz	dB	10	29	-
870.40 ~ 871.40	MHz	dB	10	23	-
871.40 ~ 875.00	MHz	dB	15	32	-
875.0 ~ 890.00	MHz	dB	14	35	-
890.00 ~ 950.00	MHz	dB	32	45	-
950.00 ~ 1500.00	MHz	dB	50	59	-
1500.00 ~ 2500.00	MHz	dB	48	60	-
Input Zin = Rin Cin		ΩllpF		150 2.66	
Output Zout = Rout Cout		ΩllpF		150 2.66	

*1): The matching circuit is real by actual passive components. 0805 Coillcraft CS series chip conductor is used for inductor. 0402 muRata GRM series is used for capacitor. RoHS Compliant Lead free Lead-free soldering

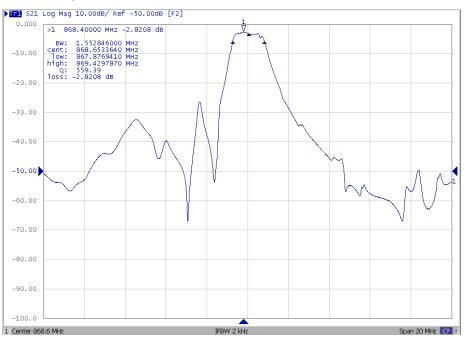
REV. NO.1

Electrostatic Sensitive Device

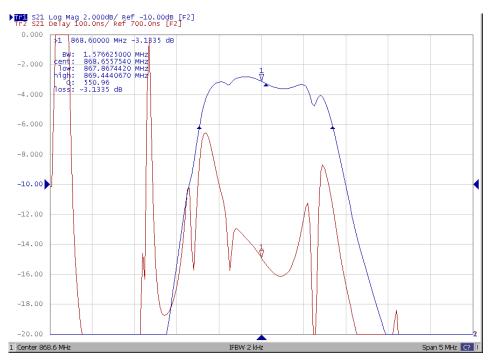
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C. FREQUENCY CHARACTERISTICS:

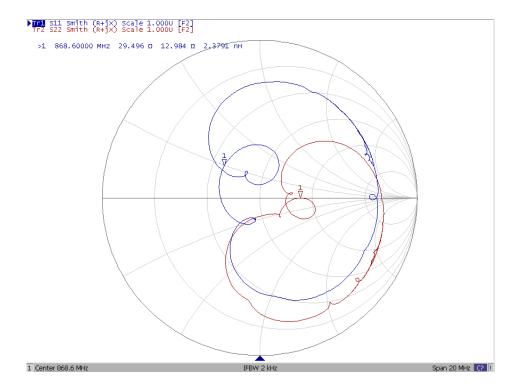
(1) Narrow band Response:



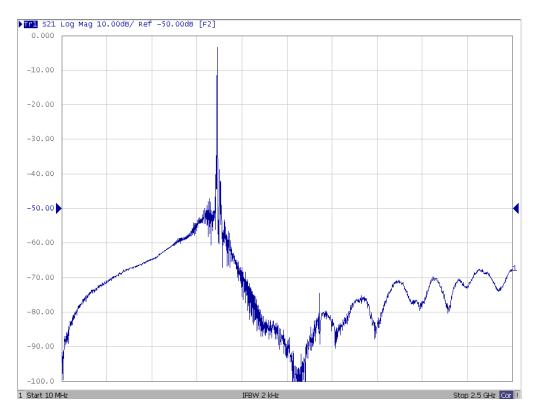
(2) Pass Band and Group Delay Response:



(3) Impedance:

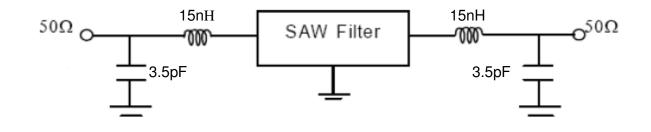


(4) Wide band Response:

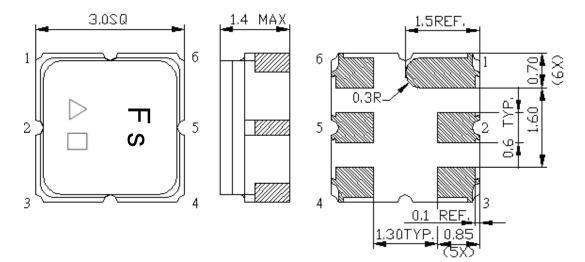


D. MEASUREMENT CIRCUIT:

The matching circuit is real by actual passive components.



E.OUTLINE DRAWING:



#1: Input (Recommend) or Input Ground

#2: Input Ground (Recommend) or Input

#4: Output Ground (Recommend) or Output

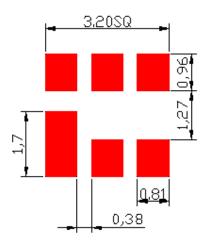
#5: Output (Recommend) or Output Ground

#3, 6: Ground

Y: Year Code 2010 \rightarrow 0, 2011 \rightarrow 1, 2012 \rightarrow 2 ... 2020 \rightarrow 0 WW: Week Code wk01 \rightarrow A, wk02 \rightarrow B2 ... wk52 \rightarrow z

WK 01	WK02	WK03	WK04	WK 05	WK 06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
А	в	с	D	E	F	G	н	I	J	к	L	М
WK14	WK15	WK16	WK17	WK 18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK 31	WK 32	WK33	WK34	WK35	WK 36	WK37	WK38	WK39
а	b	с	d	е	f	q	h	i	i	k	1	m
WK 40	WK41	WK42	WK43	WK 44	WK 45	WK46	WK47	WK48	WK 49	WK50	WK51	WK52
n	0	р	q	r	s	t	u	V	w	x	У	z

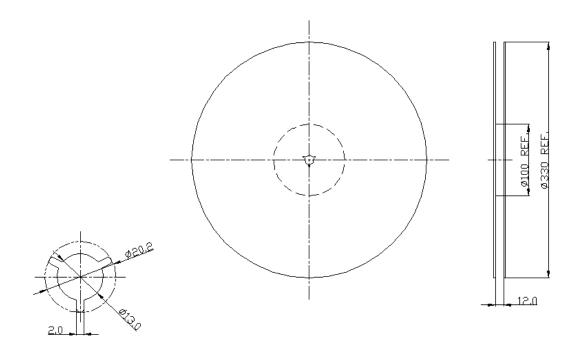
F. PCB FOOTPRINT:



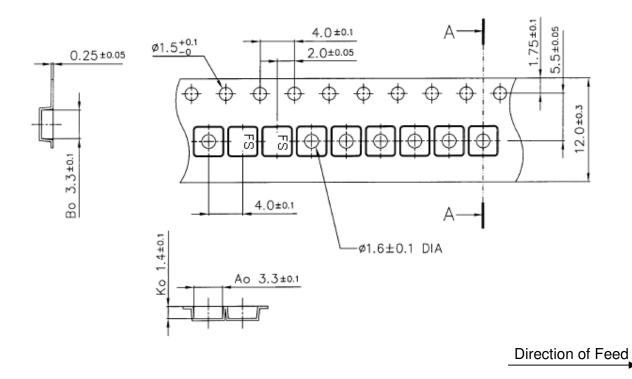
G. PACKING:

1. REEL DIMENSION

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

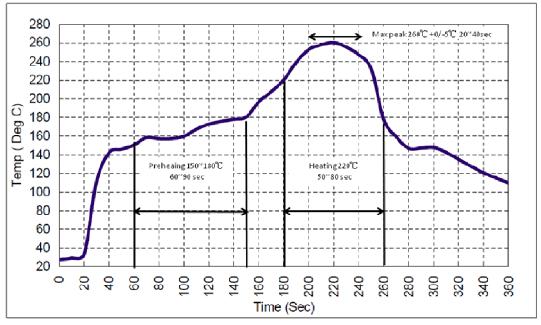


2. TAPE DIMENSION



H. Recommended Reflow Profile:

- 1. Preheating shall be fixed at $150 \sim 180^{\circ}$ C for $60 \sim 90$ seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220 $^\circ$ C for 50~80 seconds and at 260 $^\circ$ C +0/-5 $^\circ$ C peak (20~40 sec).
- 4. Time: 2 times.



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