



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: 130.06MHz 0.16MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0682A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kenweis Lee *Kenweis Lee*

Approval by: _____ Kazuma Lee *Kazuma Lee*

Date: _____ 2023/02/17

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 130.06MHz 0.16MHz BW

MODEL NO.: TB0682A

REV. NO.2

A. MAXIMUM RATING:

1. Operating Temperature: -10 °C ~ 50 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input Power Level : 10 dBm
4. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

1. Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency FC MHz	-	130.06	-	-
Minimum Insertion loss I.L. dB	-	7.3	8.5	-
1 dB Bandwidth KHz	-	167	-	-
3 dB Bandwidth KHz	160	239	250	-
40 dB Bandwidth KHz	-	692	850	-
Passband Ripple Fc ± 40KHz dB	-	0.4	1.0	-
Temp Coefficient ppm/K ²	-	-0.036	-	-

C. Frequency Characteristics :

1. S21 Response

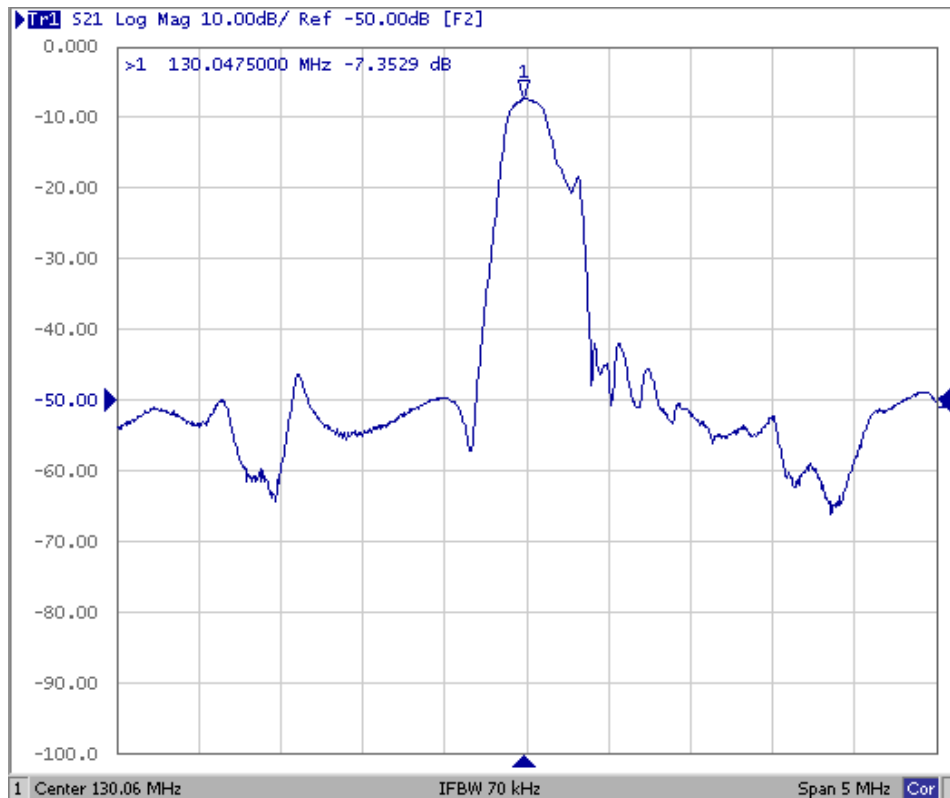


Fig1. Horizontal: 0.5MHz/Div Vertical: 10dB/Div

2. Passband Response and Group Delay Response

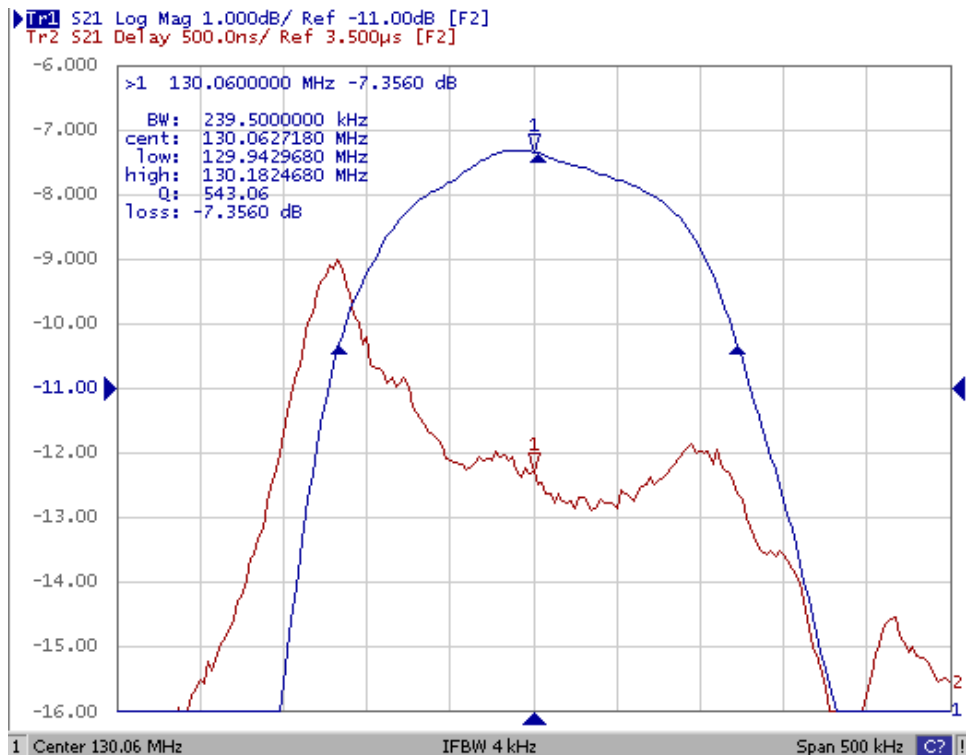
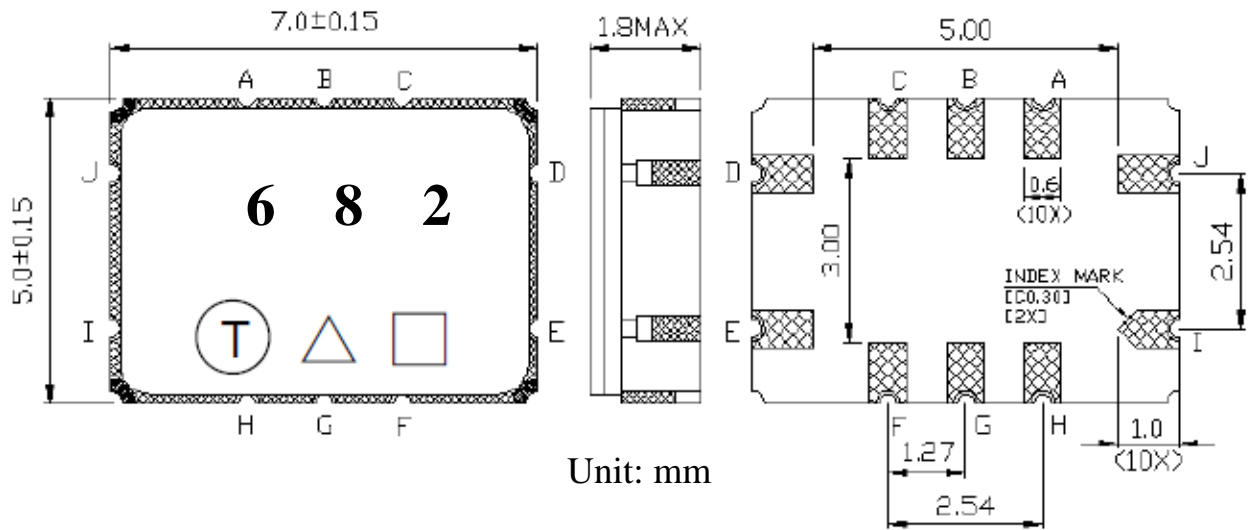


Fig2. Horizontal: 0.05MHz/Div Vertical 1: 1dB/Div
Vertical 2: 500nS/Div

D. Outline Drawing:



Unit: mm

Pin J –RF input

Pin E –RF output

Others - Ground

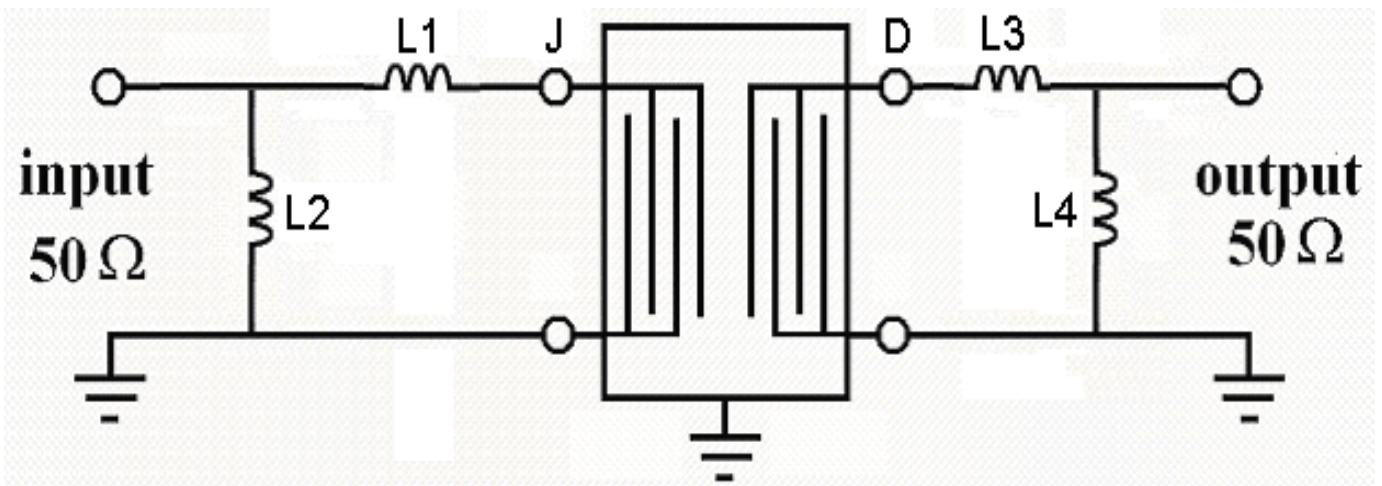
□: Week Code

△ : Product / Year Code

Product /Year Code

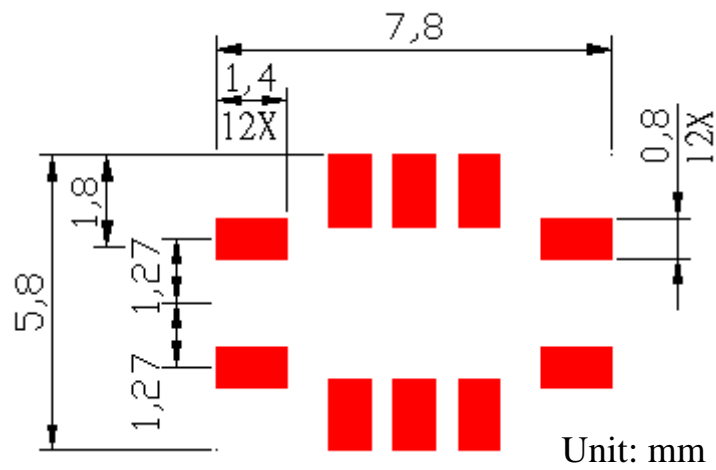
Year	2021 2025	2022 2026	2023 2027	2024 2028
Product Code	B	b	<u>B</u>	<u>b</u>

E. Matching Circuit:



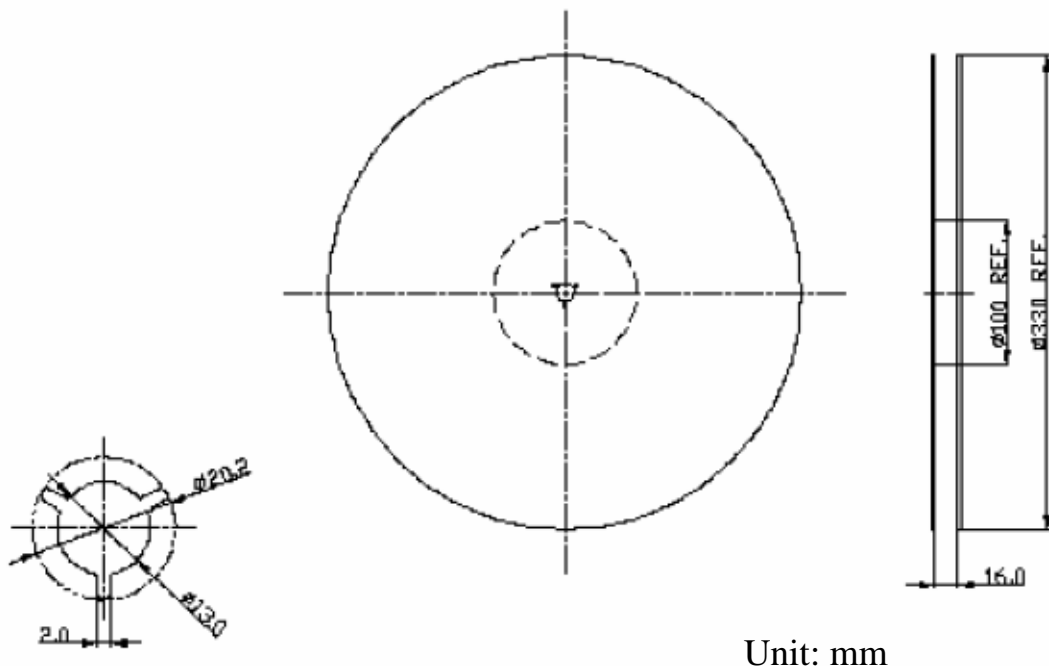
$L1=130\text{nH}$, $L2=56\text{pF}$, $L3=127\text{nH}$, $L4=56\text{pF}$

F. PCB Footprint:

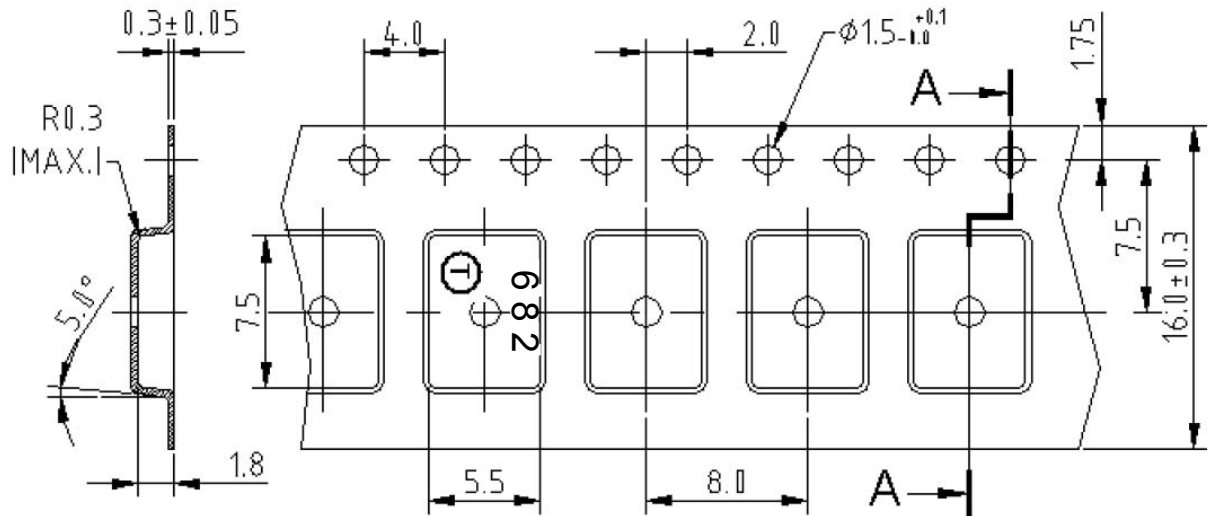


G. Packing:

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



2. Tape Dimension



Unit: mm

H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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°C for $50 \sim 80$ seconds and at $260^\circ\text{C} +0/-5^\circ\text{C}$ peak ($20 \sim 40$ sec).
4. Time: 2 times.

