



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

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Product Specifications Approval Sheet

Product Description: SAW Filter 870.5 MHz SMD 3.0×3.0 mm (BW=11 MHz)

TST Part No.: TA2522ATCA

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/08/09

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 870.5 MHz (TC SAW)

MODEL NO.: TA2522ATCA

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 22 dB_m
2. DC voltage: 4 V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitivity Level: Level 1(MSL1)

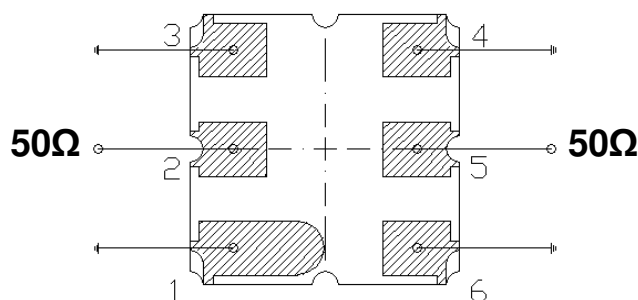
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency F_c	MHz	-	870.5	-
Insertion Loss (865~876 MHz) IL	dB	-	3.6	5.5
Amplitude Ripple (865~876 MHz)	dB _{p-p}	-	1.8	2.4
VSWR (865~876 MHz)	-	-	2.4	3.0
Attenuation (Reference level from 0 dB)				
100~815 MHz	dB	35	40	-
815~832 MHz	dB	35	40	-
832~848 MHz	dB	35	41	-
848~860 MHz	dB	10	25	-
860~862 MHz	dB	2	10	-
880~886 MHz	dB	2	14	-
886~915 MHz	dB	30	45	-
915~1000 MHz	dB	40	47	-
Temperature Coefficient of Frequency	ppm/°C	-	-14	-

C. MEASUREMENT CIRCUIT:

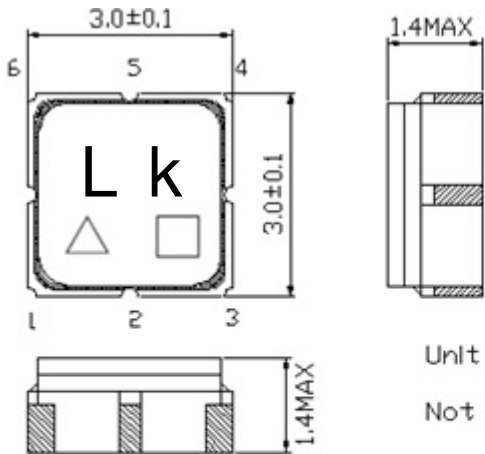


(2): Unbalance Port
(5): Unbalance Port
Others: Ground

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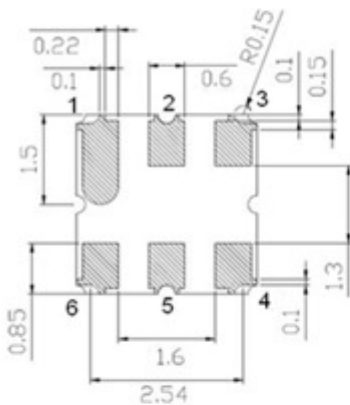
TST DCC
Release document

D. OUTLINE DRAWING:



Unit : mm

Not Specifled Tolerance : +/-0.15 mm



Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

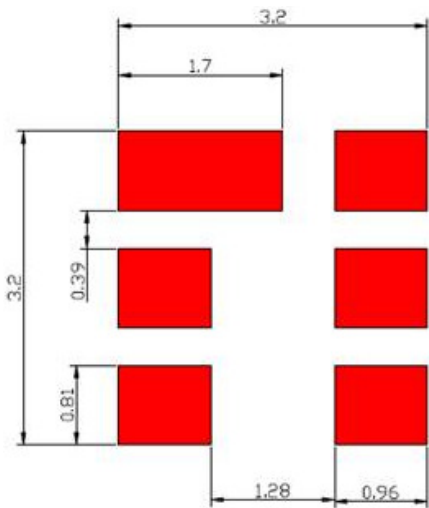
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : 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

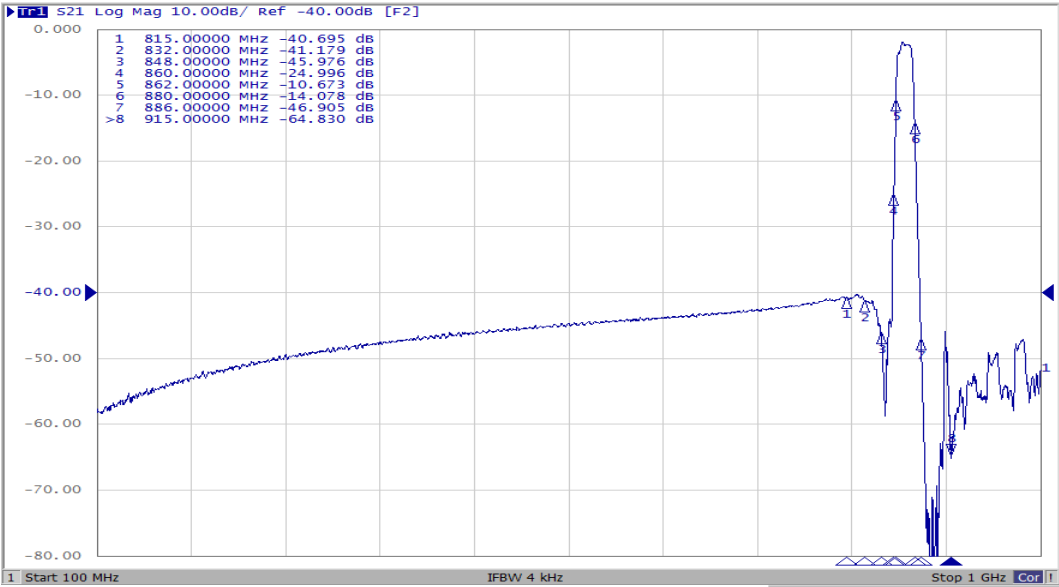
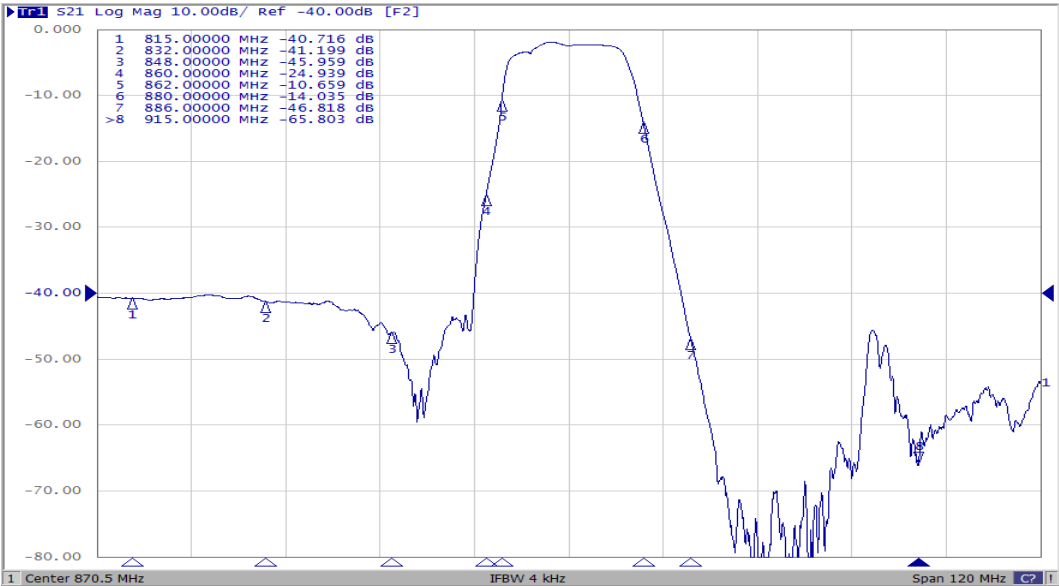
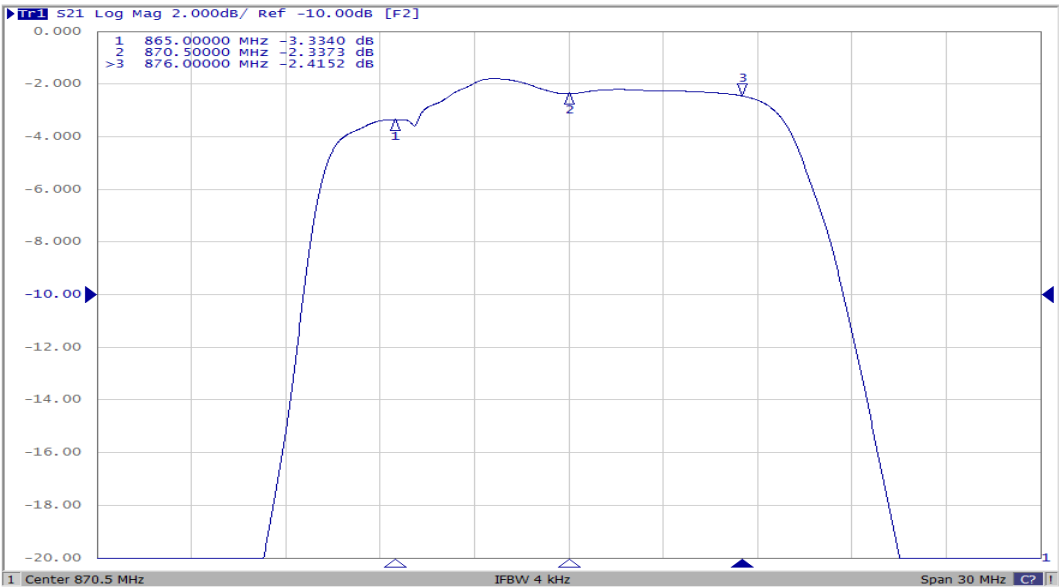
E. PCB Footprint:



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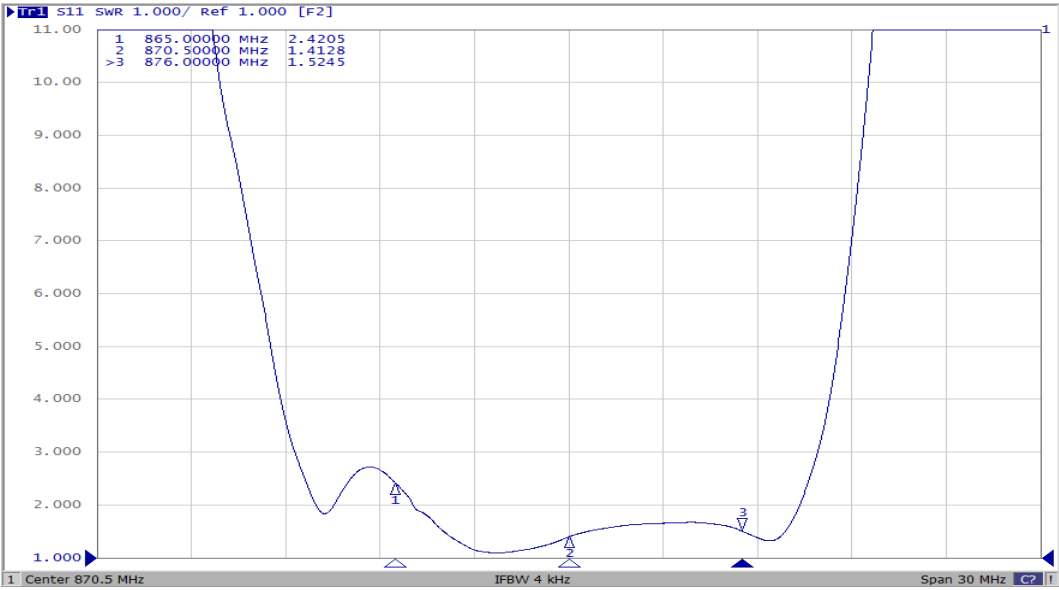
TST DCC
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F. Frequency Characteristics:

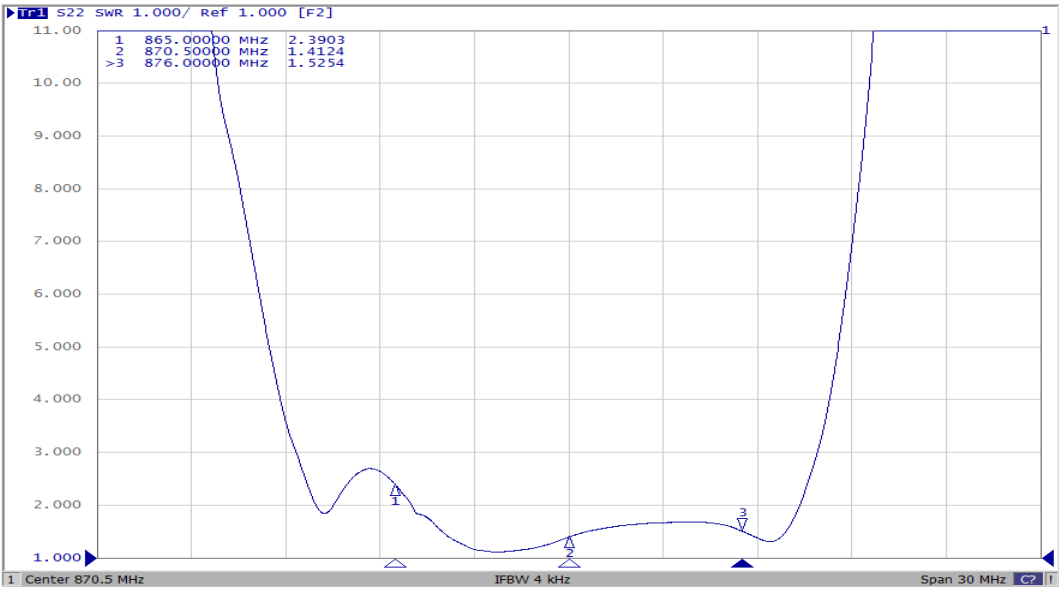


Reflection Functions:

S11



S22



1. REEL DIMENSION

Technical drawing of a circular structural member. The main view is a top-down view showing a large circle with a dashed circle inside, representing a hole. A dashed crosshair indicates the center. A leader line points from the center of the hole to the text "See DETAIL 'A'". To the right, a cross-section view shows a rectangular member with a central hole. The hole has a diameter of $\phi 100$ REF. and the member has a thickness of 12.0. Below the main view, a detail view labeled "A" shows a cross-section of the hole with a diameter of $\phi 13.0$ and a thickness of 2.0. The detail view also shows a dashed circle with a diameter of $\phi 20.2$.

Technical drawing of a multi-hole punch die. The drawing includes a side view, a top view, and a detail view of a single hole. Dimensions are given in millimeters with tolerances. Key dimensions include: overall length 12.00 ± 0.3, overall width 3.30 ± 0.1, hole diameter $\phi 1.50^{+0.1}_{-0}$, hole pitch 4.00 ± 0.1, and hole diameter $\phi 1.6 \pm 0.1$ DIA. The drawing also shows a "Direction of Feed" arrow and a "K" mark on one of the holes.

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.

