



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 845 MHz SMD 3.0×3.0mm

TST Parts No.:TA2417A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by : _____

Date:_____

Checked by:_____ Sam Lin *Sam Lin*

Approval by:_____ Andy Yu *Andy Yu*

Date:_____ 2018/05/10

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 845 MHz SMD 3.0×3.0mm

MODEL NO.: TA2417A

REV. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 16 dBm
2. DC Voltage : 6 V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

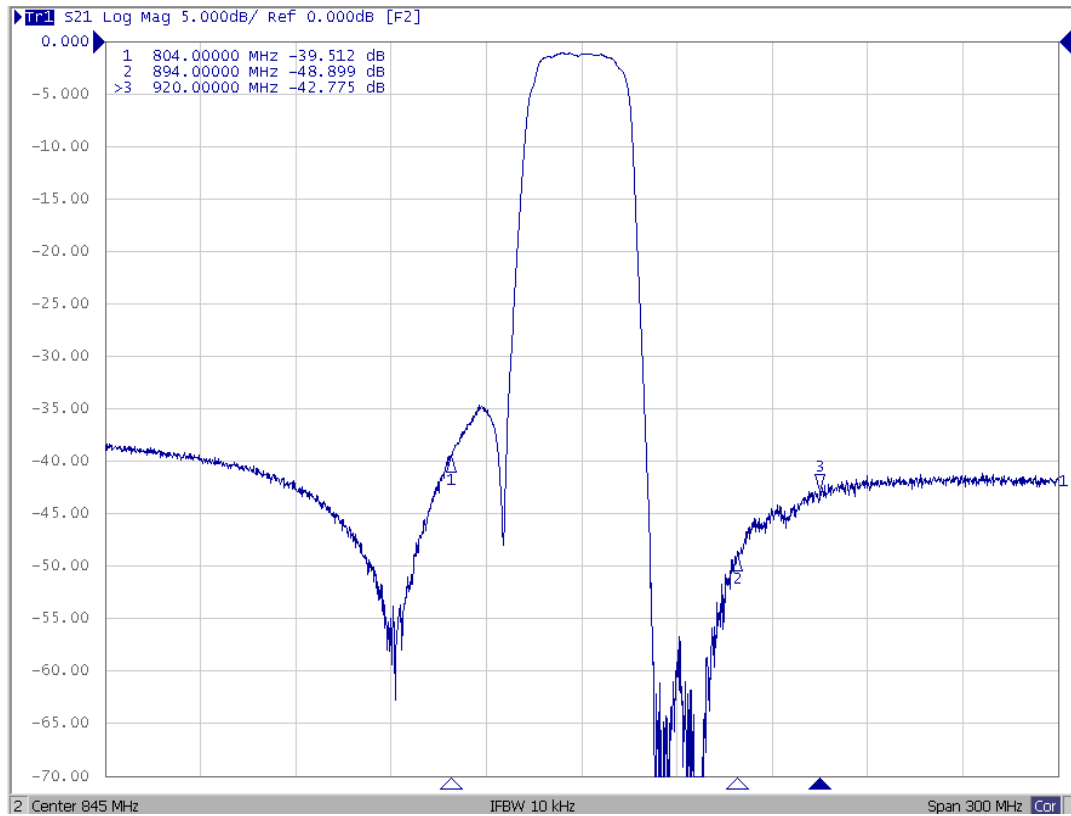
Item	Unit	Min.	Typ.	Max
Center frequency Fc	MHz	-	845	-
Insertion Loss (839 ~ 851 MHz) IL	dB	-	1.4	3.0
Amplitude ripple (839 ~ 851 MHz)	dB	-	0.3	1.8
VSWR (839 ~ 851 MHz)	ns	-	1.5	2.2
Group Delay Variation (839 ~ 851 MHz)	ns	-	15	40
Attenuation (Reference level from 0 dB)				
10 ~ 804 MHz	dB	35	37	-
869 ~ 894 MHz	dB	30	39	-
894 ~ 920 MHz	dB	35	42	-
920 ~ 1210 MHz	dB	35	42	-
1210 ~ 1500 MHz	dB	35	45	-
1500 ~ 2000 MHz	dB	30	33	-
2000 ~ 2600 MHz	dB	20	25	-
2000 ~ 3000 MHz	dB	20	22	-
Temperature coefficient of frequency	ppm/°C	-	-36	-

Notes:

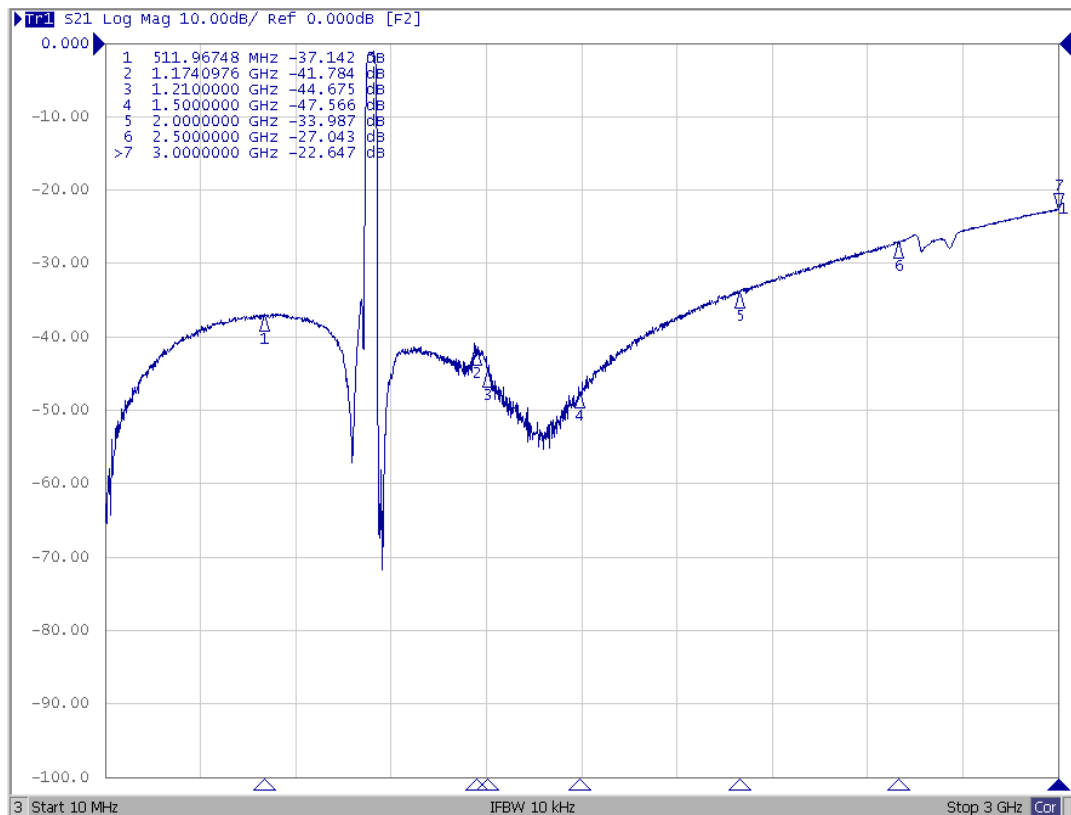
- (1). In production, devices will be tested at room temperature to a guard banded specification to ensure electrical compliance over temperature.
- (2). Typical values are based on average measurements at room temperature.

C. Frequency Characteristics :

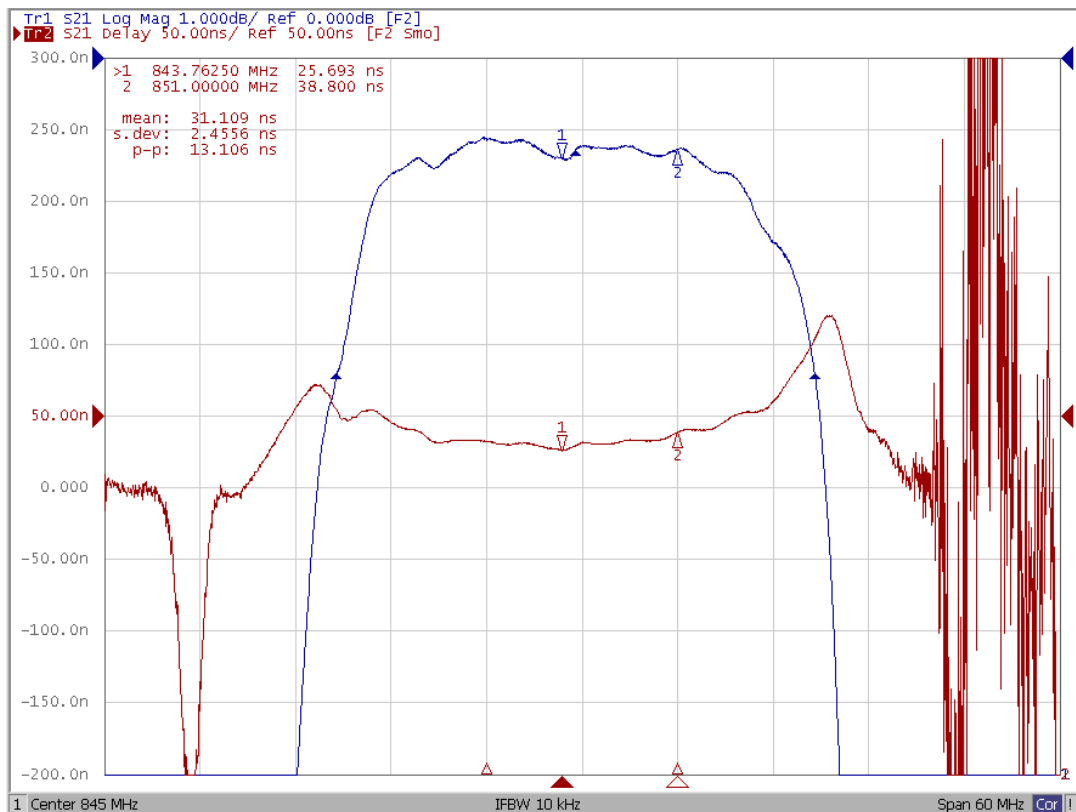
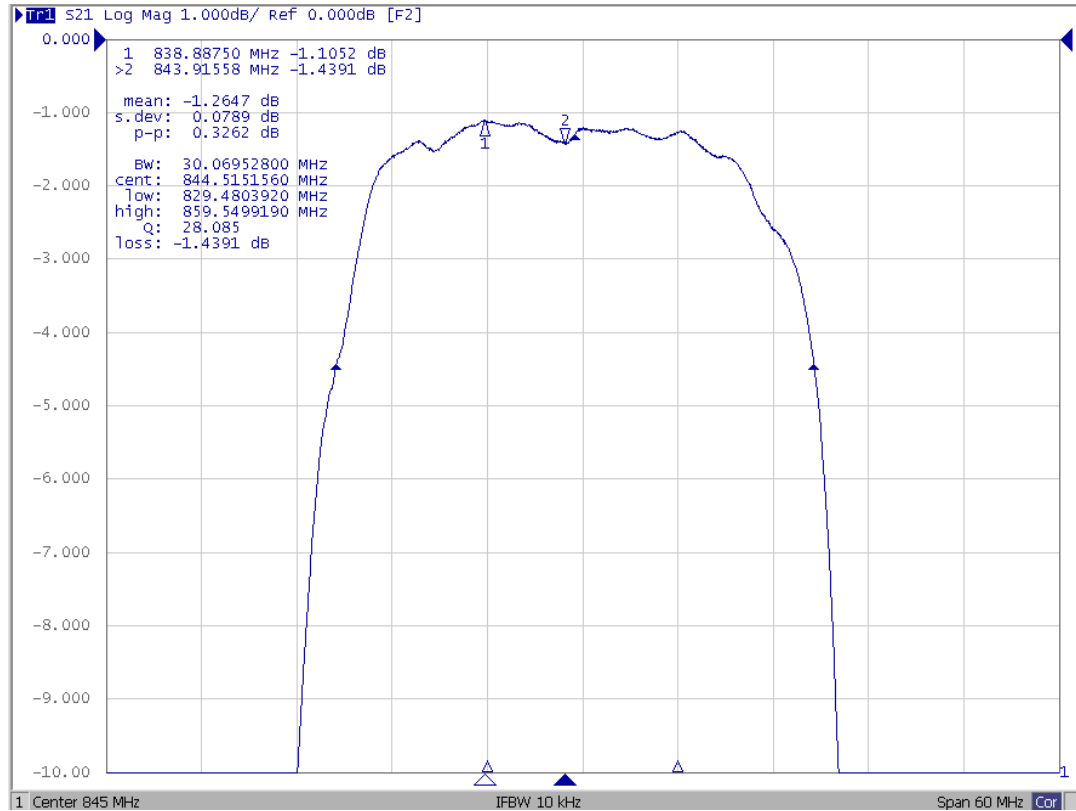
Span 300 MHz



Span 4500 MHz

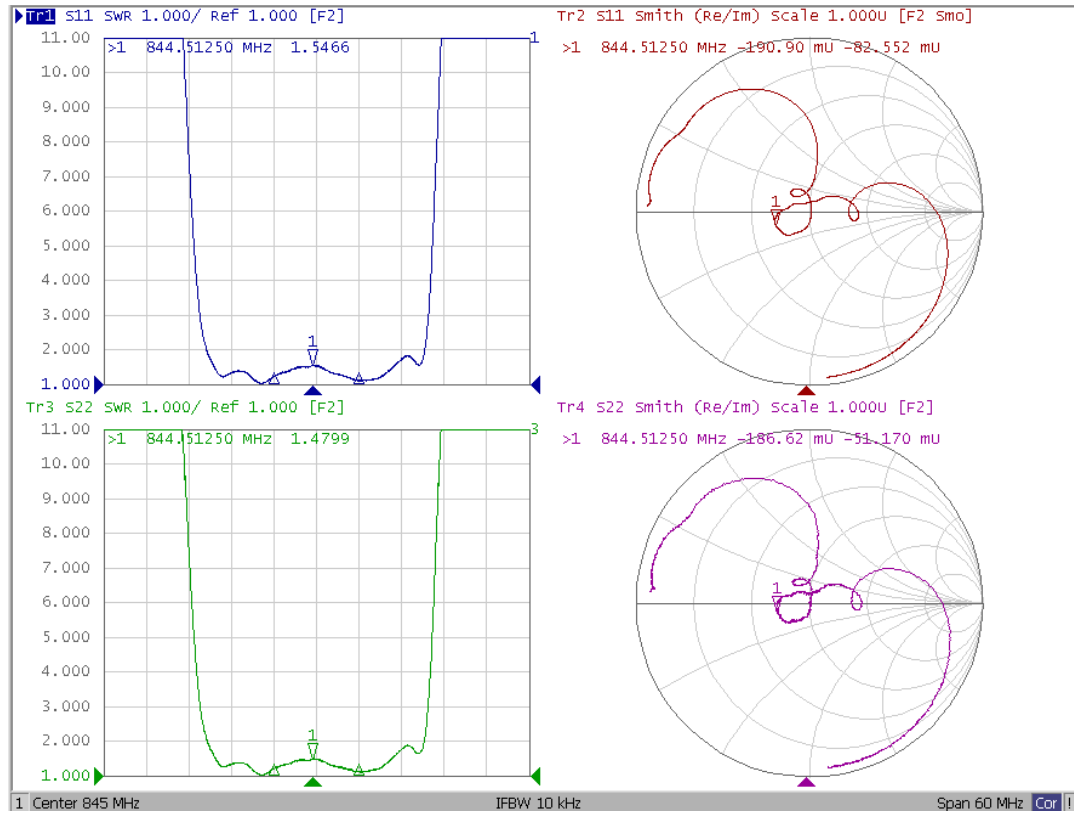


Span 60 MHz

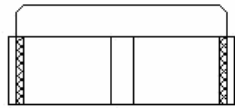
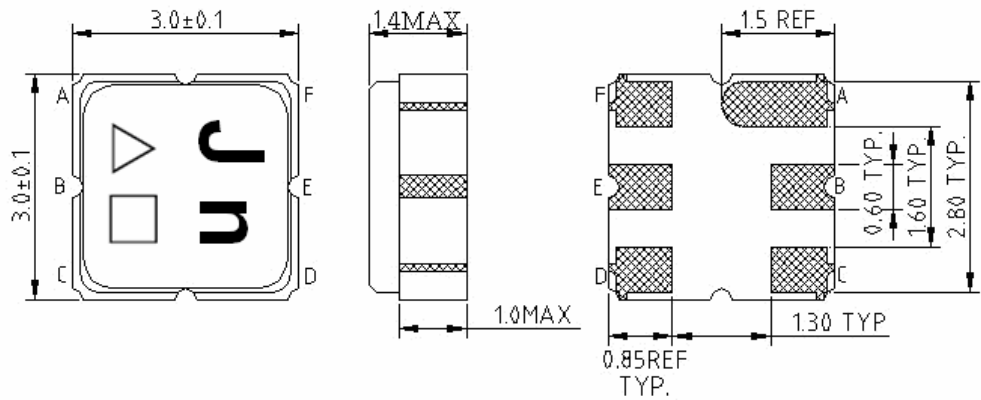


Reflection Respond (VSWR, Smith Chart)

Span 60 MHz



D. MEASUREMENT CIRCUIT:

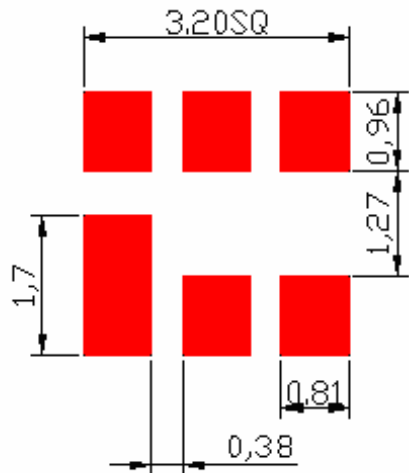


#B: Input
#E: Output
#A,C,D,F: Ground
Unit: mm

△ : Year Code (2009->9, 2010->0,..., 2018->8)
□ : Date Code (Follow the table from planner each year)

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

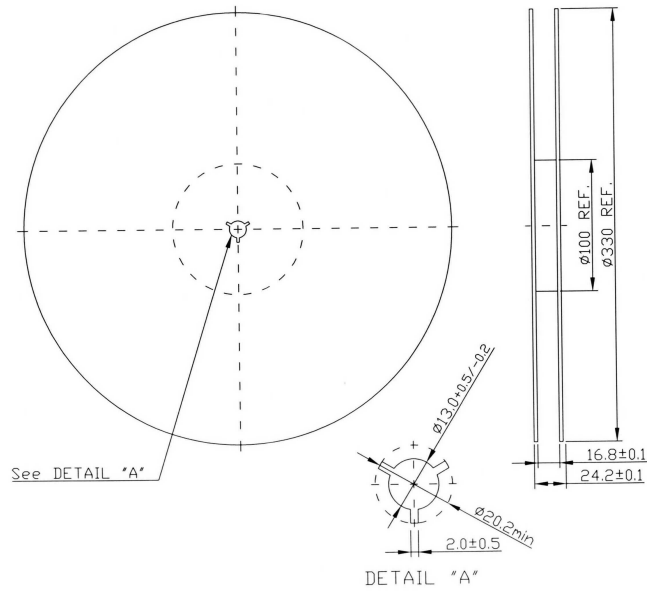
F. PCB FootPrint



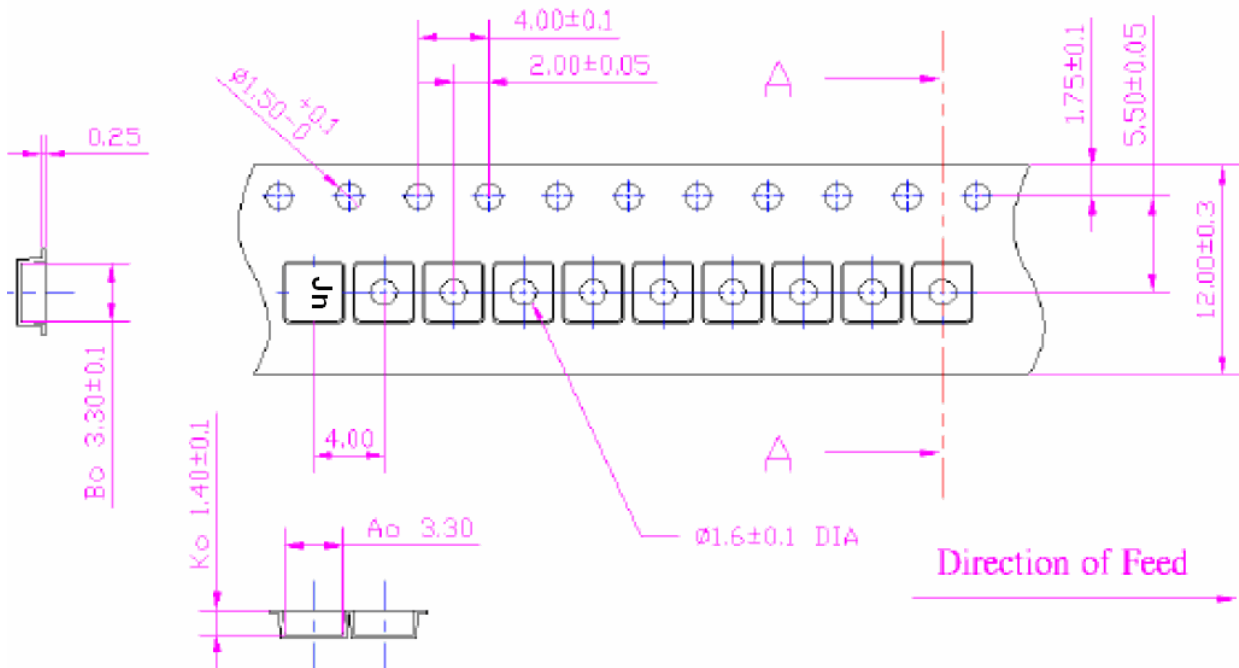
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°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.

