



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specification Approval Sheet

Product Name: SAW Filter 1842.5 MHz 75MHz Bw SMD 3X3 mm

TST Parts No.:TA0363B

Customer Parts No.: _____

Customer signature required

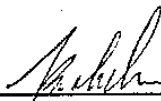
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 07, 09, 2013

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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E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com**SAW Filter 1842.5 MHz for Mobile Communication**

MODEL NO.: TA0363B

REV. NO.:1

A1. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 0 V
3. Operating Temperature: 25°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering**Electrostatic Sensitive Device (ESD)****B1. ELECTRICAL CHARACTERISTICS:**

Item		Min.	Typ.	Max.
Center frequency	F_c (MHz)	-	1842.5	-
Insertion loss (1805~1880 MHz)	IL (dB)	-	2.2	3.8
Amplitude ripple (1805~1880 MHz)	(dB)	-	1.3	2.0
Attenuation (Reference level from 0 dB)				
D.C. ~ 1500 MHz	(dB)	20.0	24.5	-
1500 ~ 1710 MHz	(dB)	22.0	25.0	-
1710 ~ 1785 MHz	(dB)	10.0	23.5	-
1920 ~ 3120 MHz	(dB)	25.0	28.0	-
3120 ~ 4000 MHz	(dB)	17.0	30.0	-
Input/Output VSWR (1805~1880 MHz)		-	1.9	2.1
Source impedance	Z_s (Ω)	-	50	-
Load impedance	Z_L (Ω)	-	50	-

A2. MAXIMUM RATING:

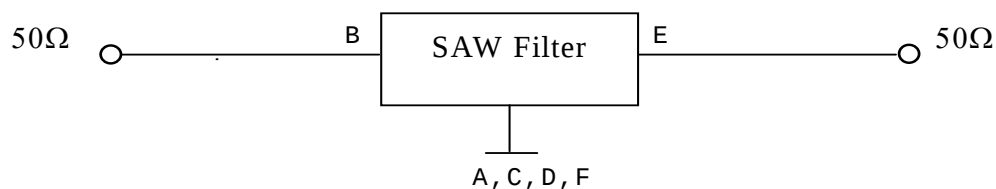
1. Input Power Level: 13 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B2. ELECTRICAL CHARACTERISTICS:

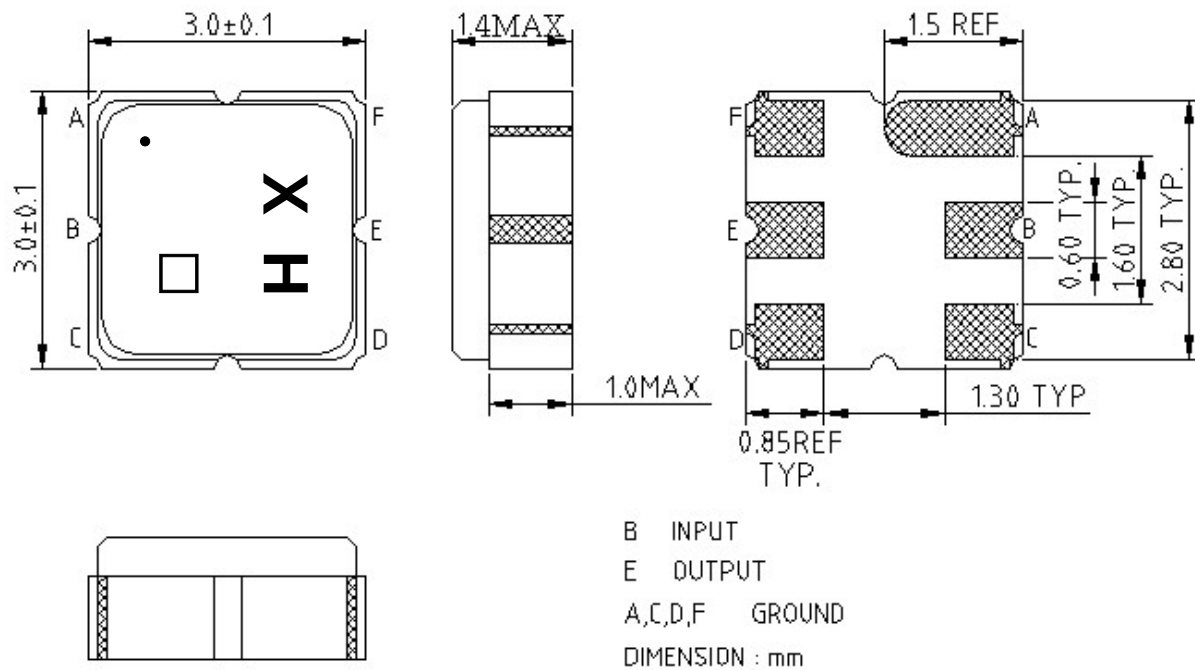
Item		Min.	Typ.	Max.
Center frequency	Fc (MHz)	-	1842.5	-
Insertion loss (1805~1880 MHz)	IL (dB)	-	2.2	3.8
Amplitude ripple (1805~1880 MHz)	(dB)	-	1.3	2.0
Attenuation (Reference level from 0 dB)				
D.C. ~ 1500 MHz	(dB)	20.0	24.5	-
1500 ~ 1710 MHz	(dB)	22.0	25.0	-
1710 ~ 1785 MHz	(dB)	10.0	23.5	-
1920 ~ 3120 MHz	(dB)	25.0	28.0	-
3120 ~ 4000 MHz	(dB)	17.0	30.0	-
Input/Output VSWR (1805~1880 MHz)		-	2.0	2.2
Source impedance	Zs (Ω)	-	50	-
Load impedance	ZL (Ω)	-	50	-

MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



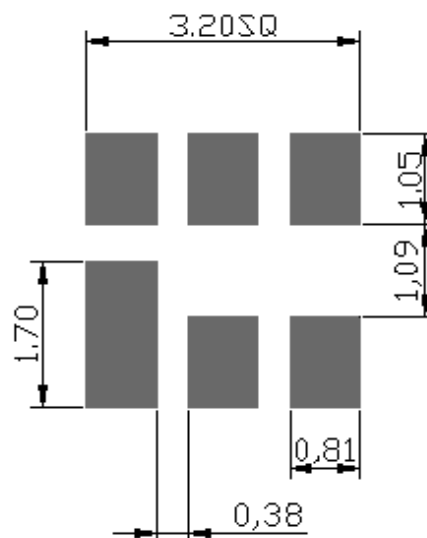
: Year Code (2011->1, 2012->2, ..., 2019->9)

□ : Date Code (Follow the table from planner each year)

Date Code Table

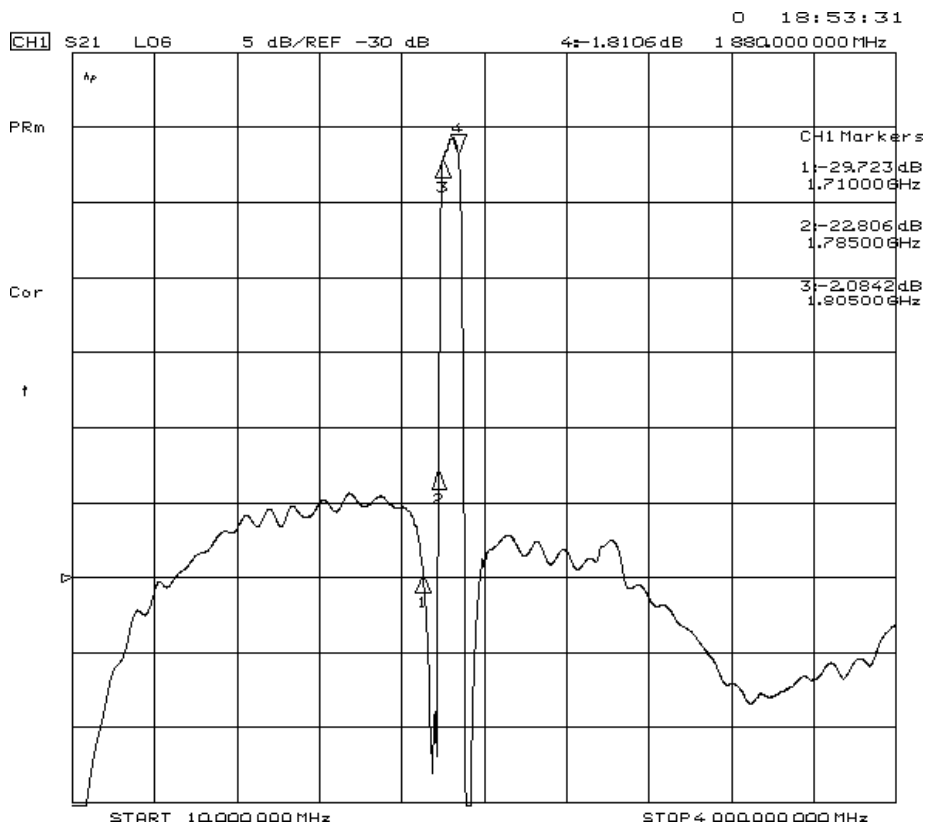
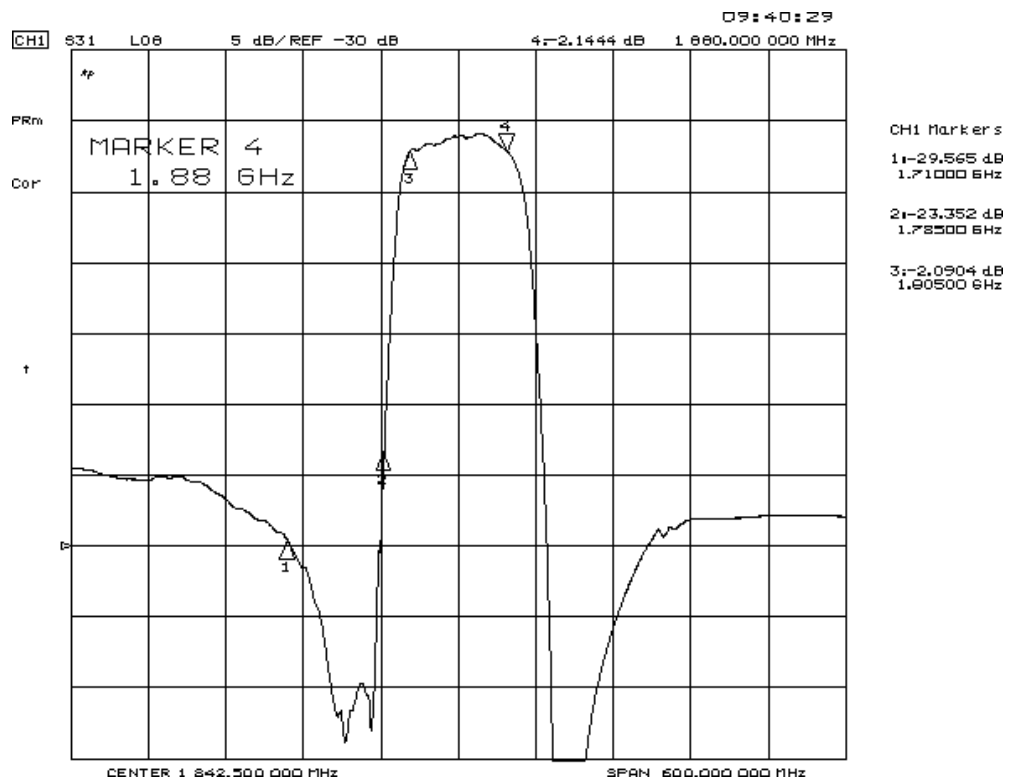
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. PCB Footprint:



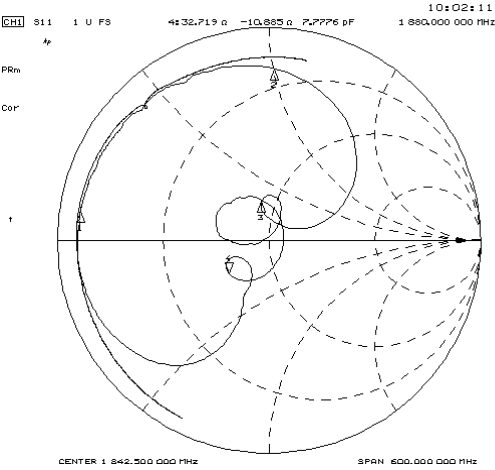
E. Frequency Characteristics :

Transfer function



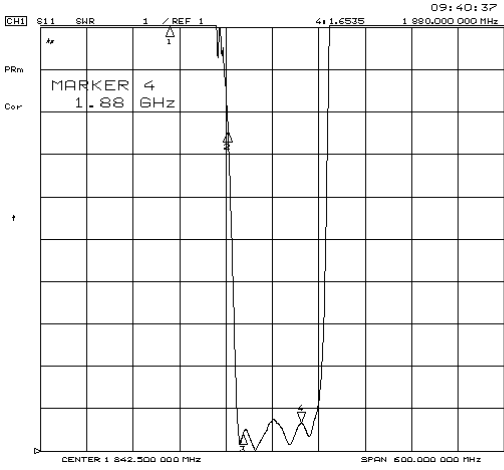
Reflections Functions :

S11



CH1 Markers

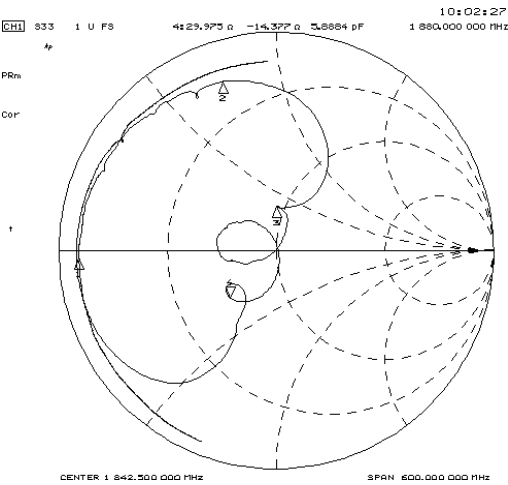
1:	2.5925 Ω
2:	3.7598 Ω
3:	1.71000 GHz
4:	10.940 Ω
5:	50.418 Ω
6:	1.76500 GHz
7:	31.43.621 Ω
8:	16.602 Ω
9:	1.60500 GHz



CH1 Markers

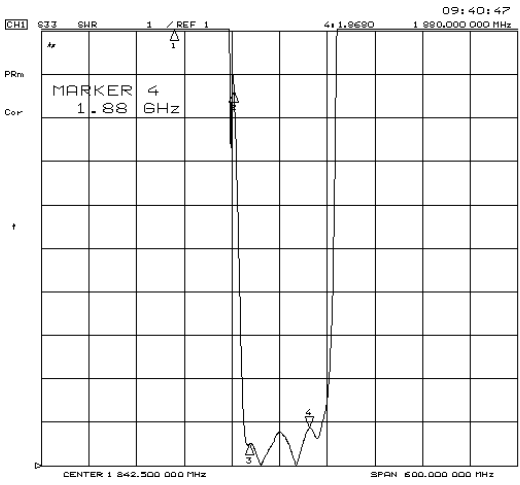
1:	115.471
2:	1.71000 GHz
3:	21.85643
4:	1.76500 GHz
5:	31.1.4274
6:	1.60500 GHz

S22



CH1 Markers

1:	2.3982 Ω
2:	303.44 Ω
3:	1.71000 GHz
4:	21.7.9265 Ω
5:	36.053 Ω
6:	1.76500 GHz
7:	46.301 Ω
8:	19.635 Ω
9:	1.60500 GHz

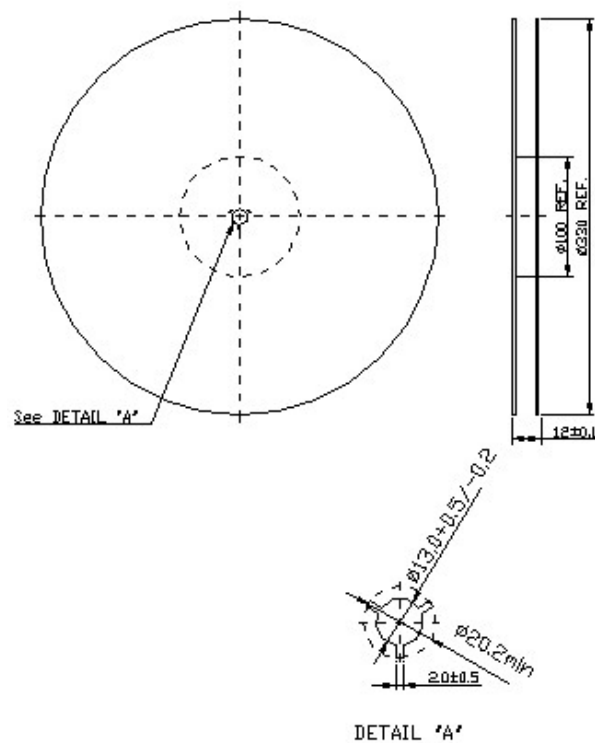


CH1 Markers

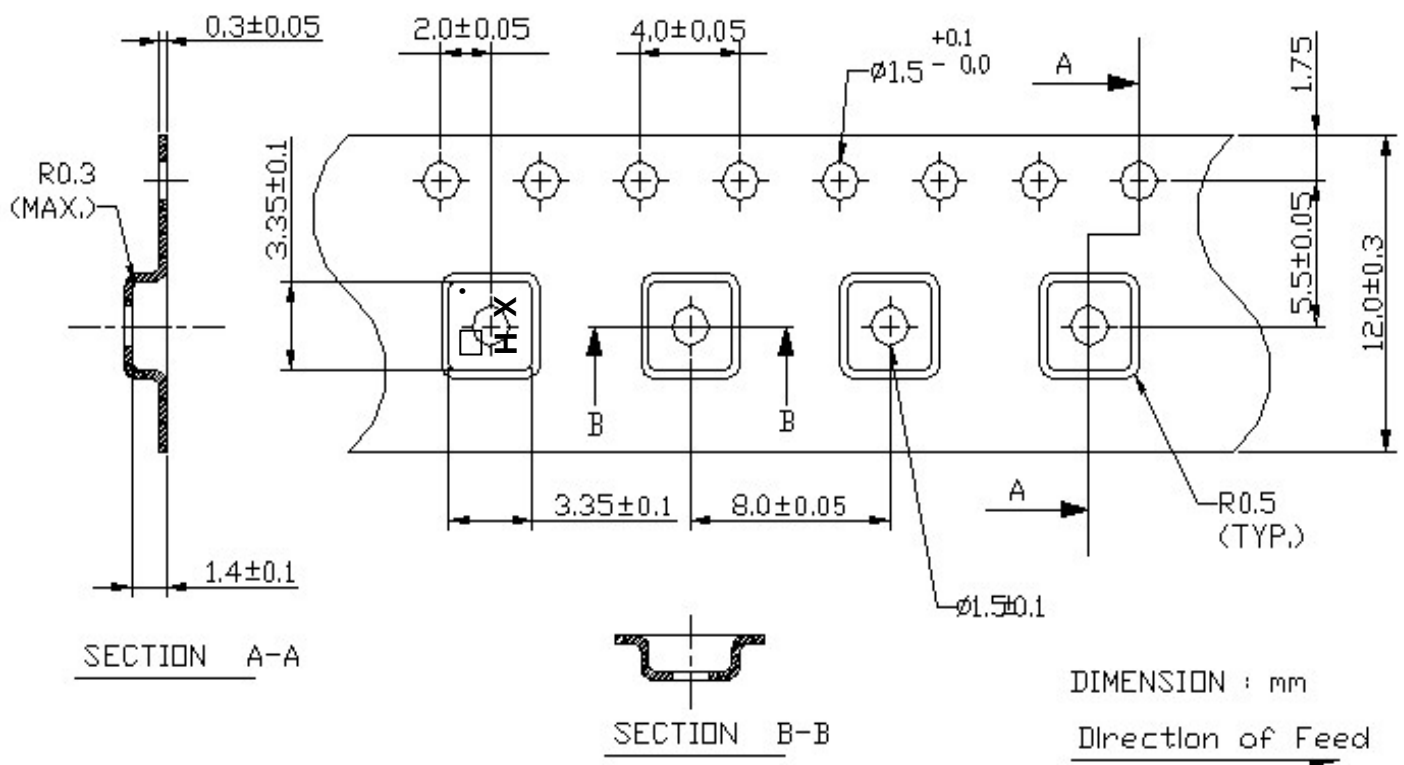
1:	21.038
2:	1.71000 GHz
3:	21.9.6247
4:	1.76500 GHz
5:	31.1.5045
6:	1.60500 GHz

1. REEL DIMENSION

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



2. TABELLE DIMENSIONI



G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180 for 60~90 seconds.
2. Ascending time to preheating temperature 150 shall be 30 seconds min.
3. Heating shall be fixed at 220 for 50~80 seconds and at 245~260 peak (min. 10sec).
4. Time : 2 times.

