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
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 1900 MHz SMD 1.4X1.1 mm

TST Part No.: TA1424A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau _____

Approved by:_____ Francis Chen _____

Date:_____ 12, 28, 2011 _____

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 1900MHz

MODEL NO.:TA1424A REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

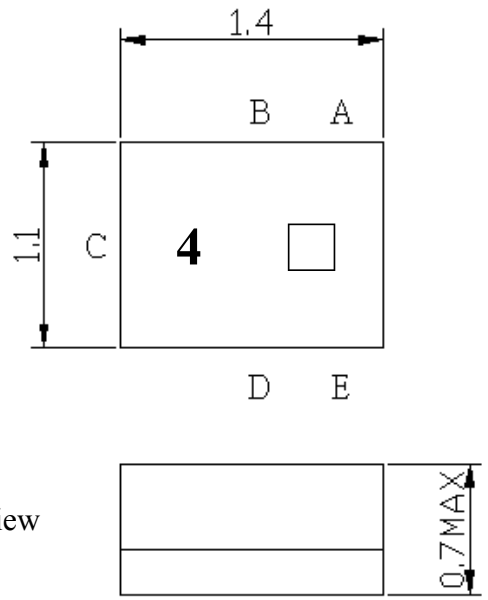
Terminating source impedance (single-ended) : Zs = 50 Ω

Terminating load impedance (differential) : Z_L = 200 Ω // 22nH

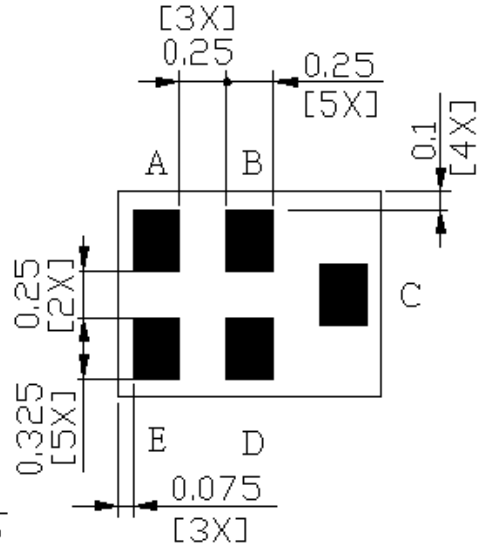
Item	Unit	Min.	Type.	Max.	Note
Center Frequency **Fc**	MHz	-	1900	-	-
Insertion Loss (1880~1920MHz) **IL**	dB	-	1.9	3	-
Amplitude ripple (1880~1920 MHz)	dB	-	0.2	1.2	-
Output amplitude balance (|S31/S21|) (1880~1920 MHz)	dB	-5	-0.3 /2.3	5	-
Output phase balance (Φ(S31)-Φ(S21)+180°) (1880~1920 MHz)	deg	-15	0/6.3	15	-
VSWR (1880~1920 MHz)		-	1.7	2.2	-
Attenuation					
10~1000 MHz	dB	40	42	-	-
1000~1500 MHz	dB	35	40	-	-
1500~1800 MHz	dB	18	34	-	-
1800~1820 MHz	dB	15	33	-	-
1820~1840 MHz	dB	10	28	-	-
1970~2000 MHz	dB	15	21	-	-
2000~2500 MHz	dB	20	26	-	-
2500~3000 MHz	dB	25	40	-	-
3000~4500 MHz	dB	40	52	-	-
4500~6000 MHz	dB	25	44	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

C.OUTLINE DRAWING:

top view



side view



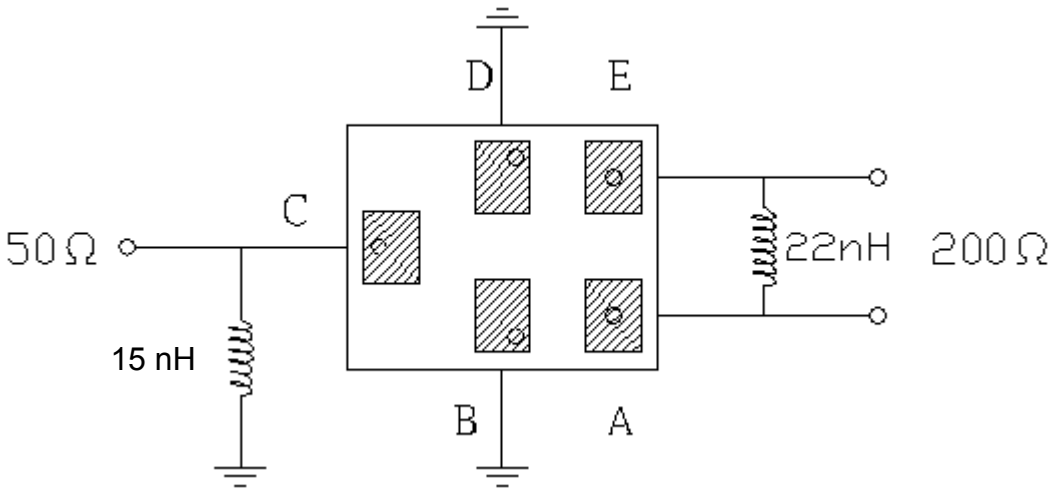
bottom view

C : Unbalance Input
A,E : Balance Output
B,D : Ground
Unit : mm

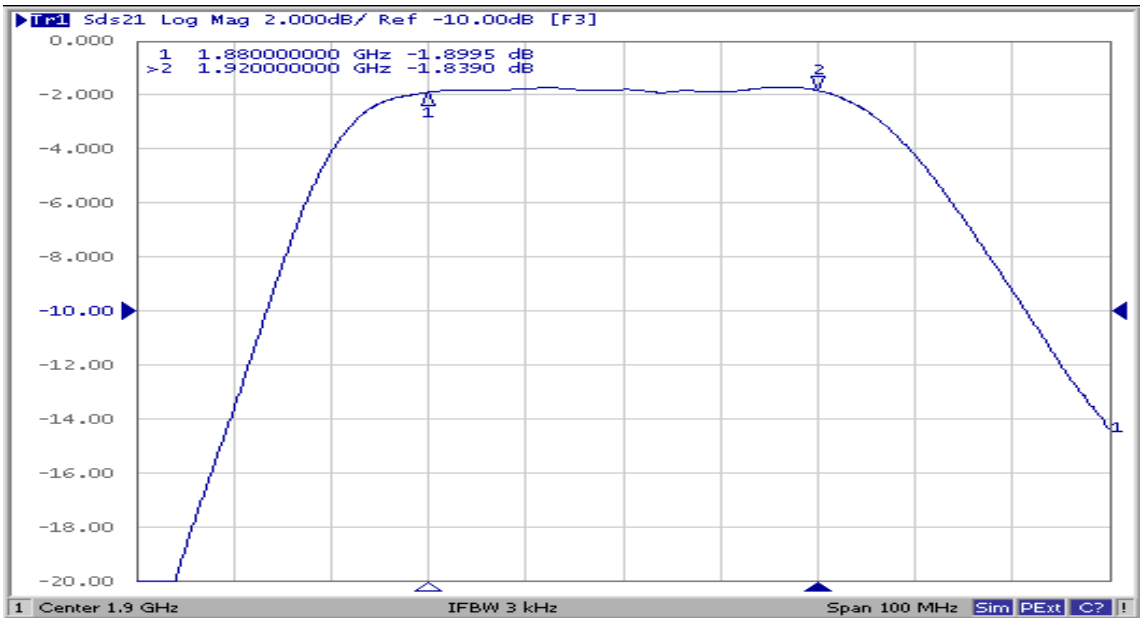
☐ : Year/Month Code (Follow the table)

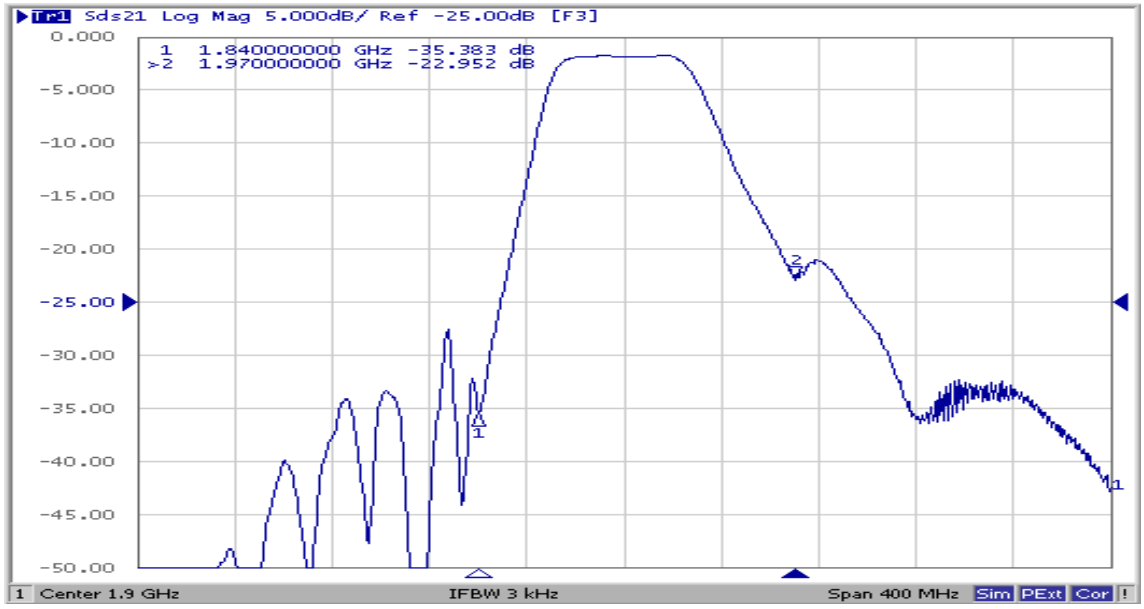
Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2009	A	B	C	D	E	F	G	H	J	K	L	M
2010	N	P	Q	R	S	T	U	V	W	X	Y	Z
2011	A	B	C	D	E	F	G	H	J	K	L	M
2012	N	P	Q	R	S	T	U	V	W	X	Y	Z
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z

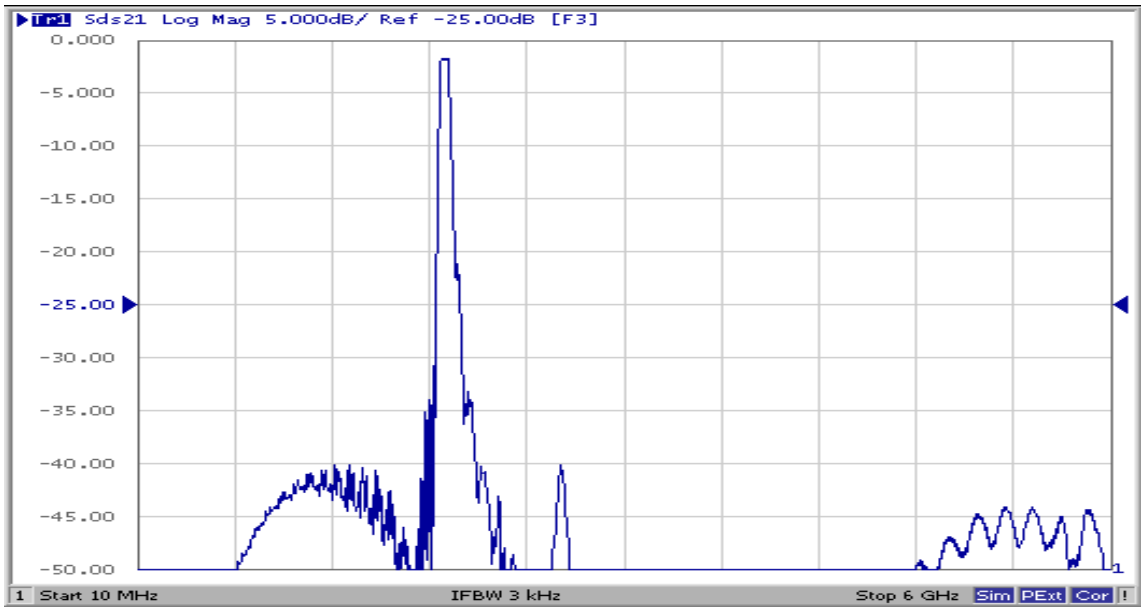
D. MEASUREMENT CIRCUIT:

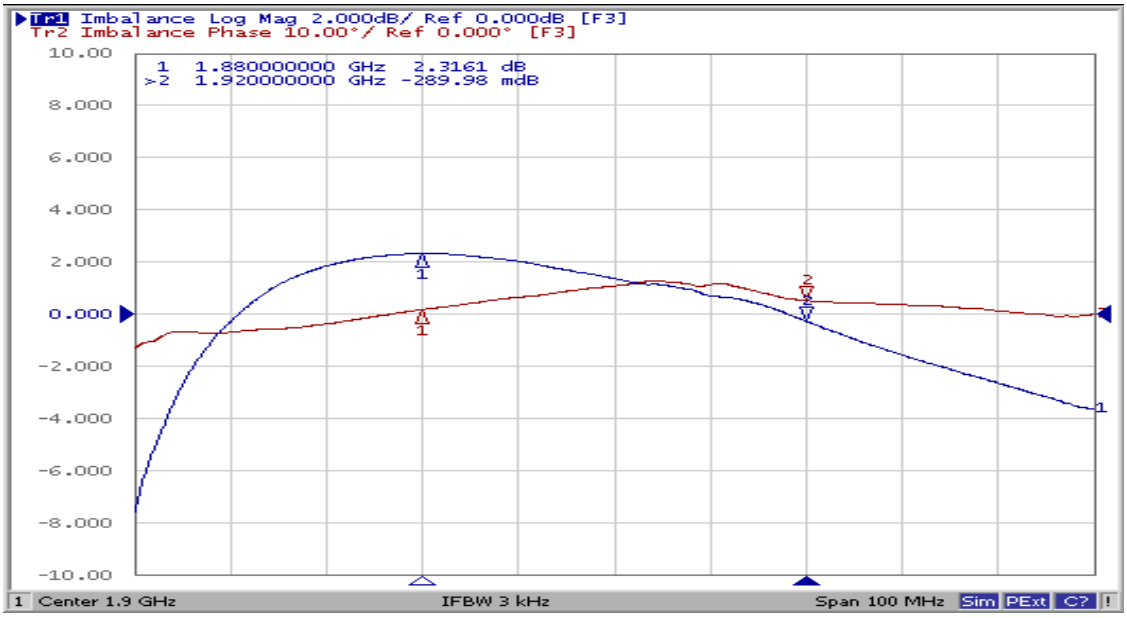


E. Frequency Characteristics :

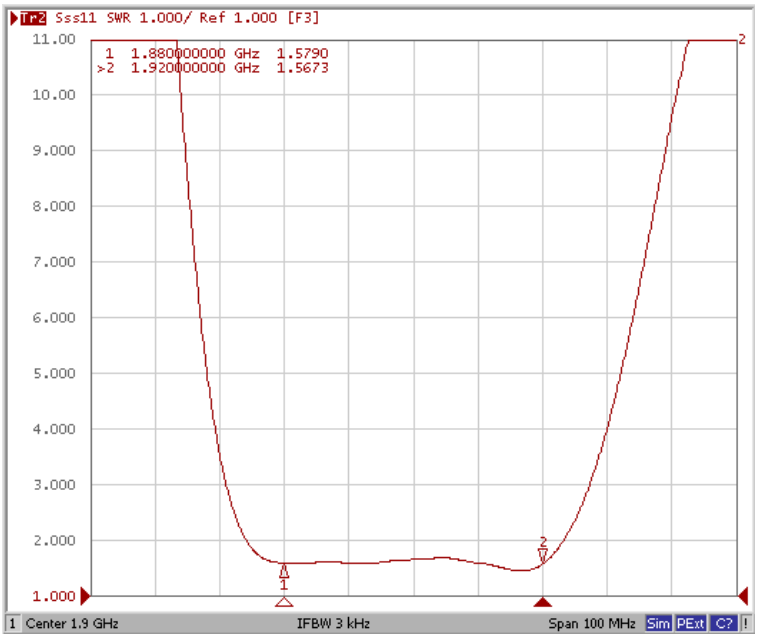


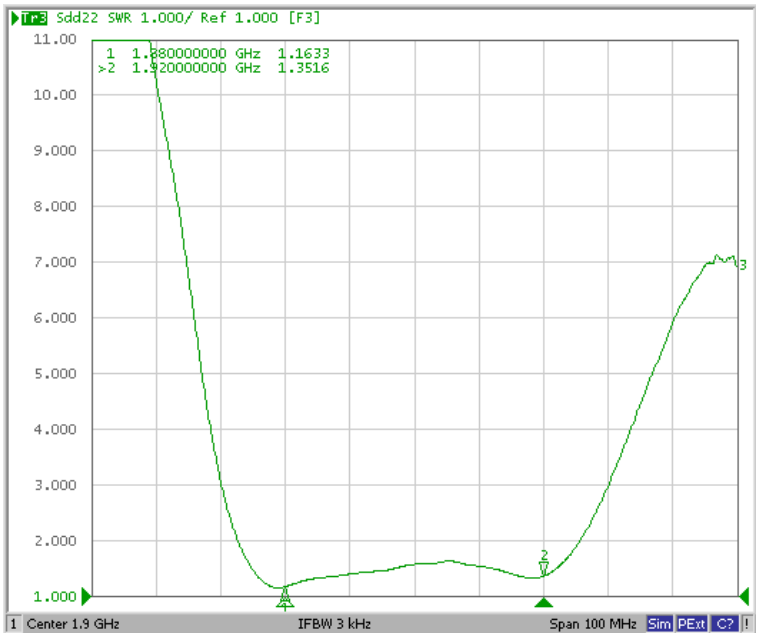






Reflection Functions :

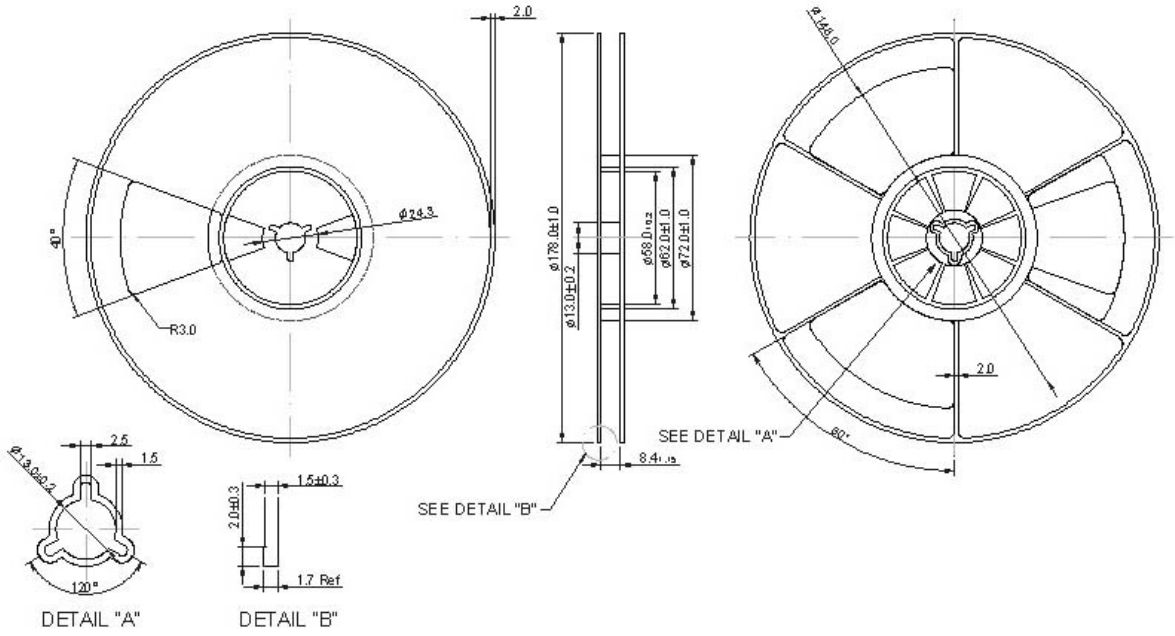




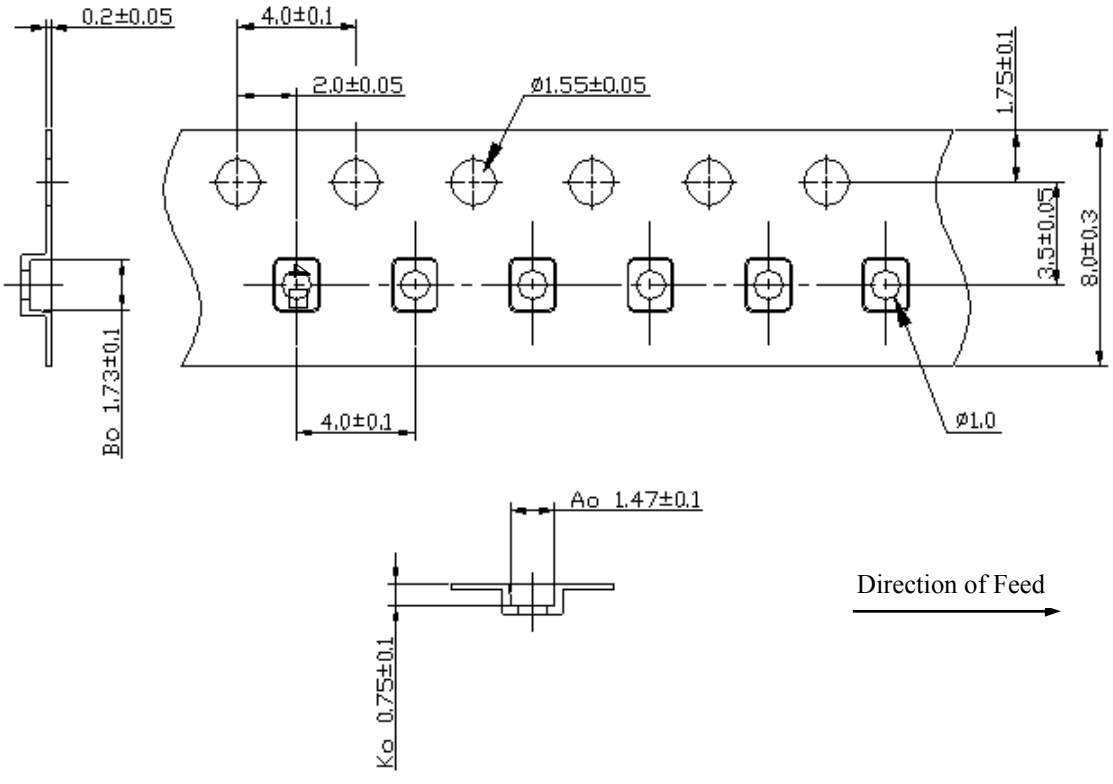
F. PACKING:

1. REEL DIMENSION

(Reel Count : 7”=2000 ; 13”=10000)



2.TAPE DIMENSION



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.