



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 Specification Approval Sheet

Product Name: SAW Filter 1960 MHz 60MHz BW SMD 2.5x2.0 mm

TST Parts No.: TA0319A

Customer Parts No.: _____

Customer signature required

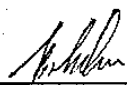
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 03, 11, 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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SAW Filter 1960 MHz for Mobile Communication

MODEL NO.: TA0319A

REV. NO.:2

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +75°C

2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS :

Electrostatic Sensitive Device (ESD)

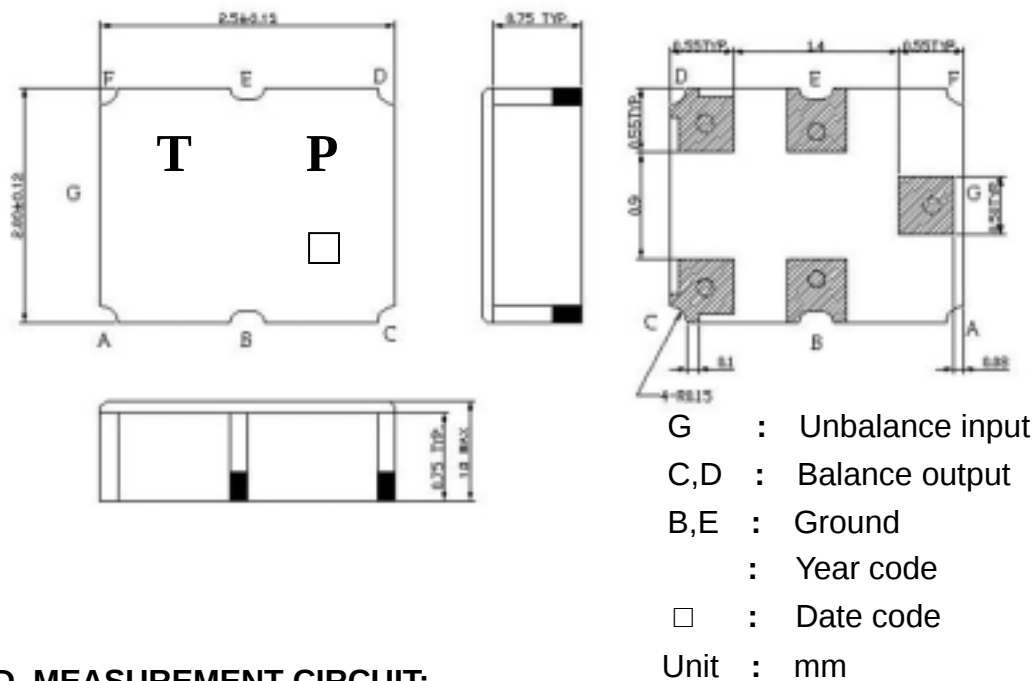
Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \Omega$

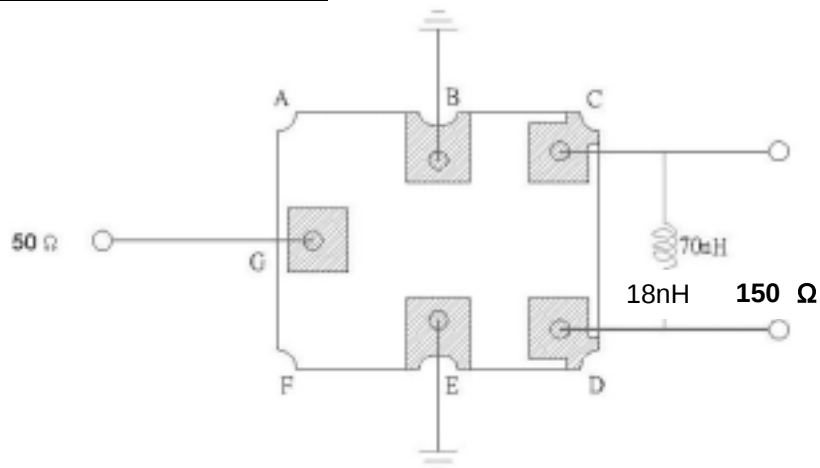
Terminating load impedance : $Z_L = 150 \Omega // 18 \text{ nH}$

Item			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_c	MHz	-	1960	-	-
Insertion loss(1930~1990 MHz) I.L.		(dB)	-	3.3	4.0	-
Ripple (1930~1990 MHz)		(dB)	-	0.8	2.4	-
Input VSWR (1930~1990 MHz)			-	1.8	2.7	-
Output VSWR (1930~1990 MHz)			-	2.3	2.7	-
Attenuation:(Reference level from 0 dB)						
0 ~ 1000	MHz	(dB)	45	57	-	-
1000 ~ 1830	MHz	(dB)	25	31	-	-
1830 ~ 1900	MHz	(dB)	15	25	-	-
1900 ~ 1910	MHz	(dB)	7	14	-	-
2010 ~ 2030	MHz	(dB)	5	12	-	-
2030 ~ 2070	MHz	(dB)	12	18	-	-
2070 ~ 2310	MHz	(dB)	20	23.5	-	-
2310 ~ 2380	MHz	(dB)	35	38	-	-
2380 ~ 4600	MHz	(dB)	30	39	-	-
4600 ~ 6000	MHz	(dB)	23	54	-	-
Symmetry in band (referenced to the matched operating condition)						
Output amplitude balance ($ S_{31}/S_{21} $)		(dB)	-2.2	0	2.2	-
(1930~1990 MHz)						
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$)		degree	-15	0	15	-
(1930~1990 MHz)						

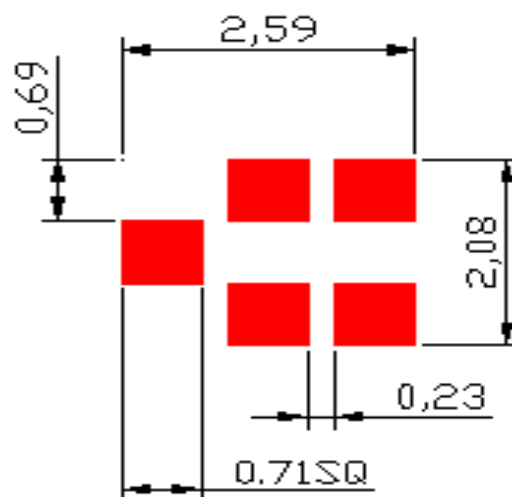
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:

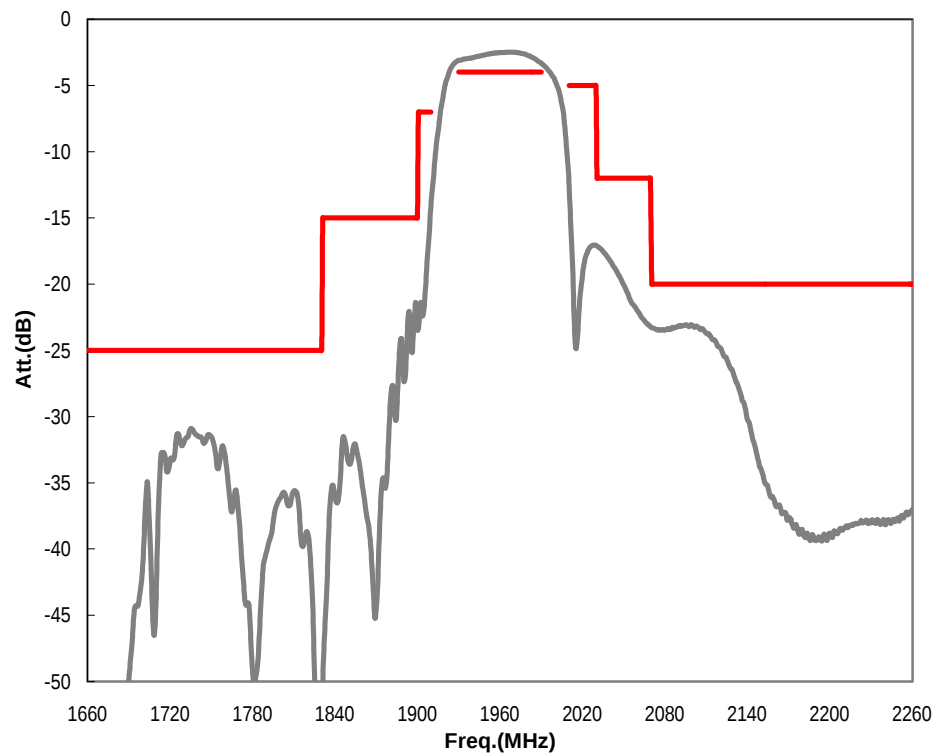


LAND PATTERN:

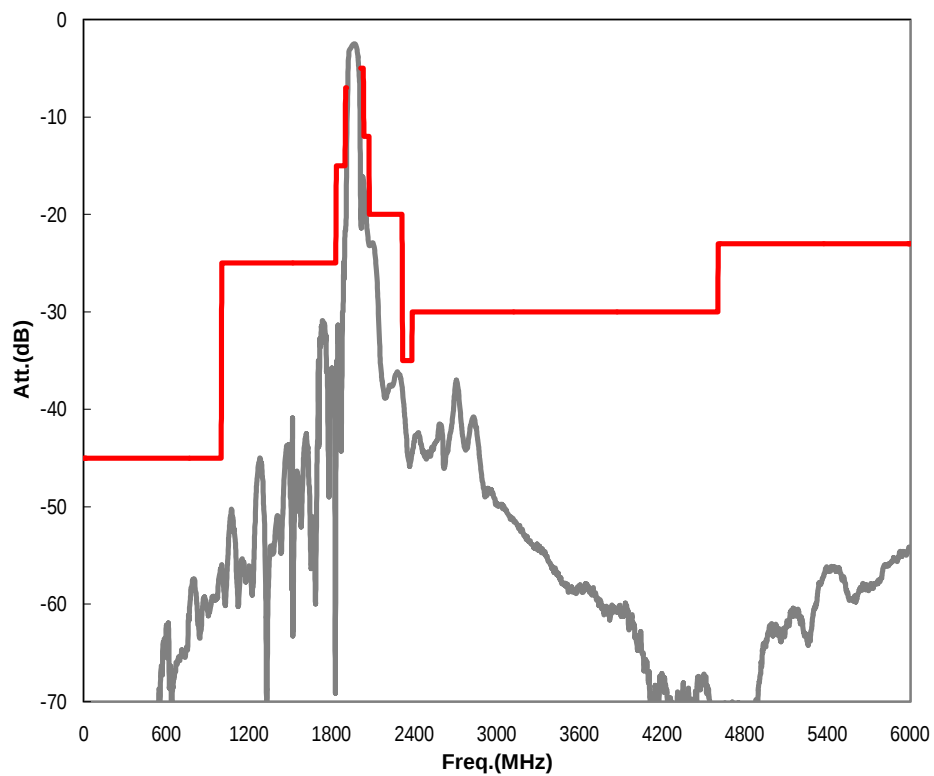


E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25)

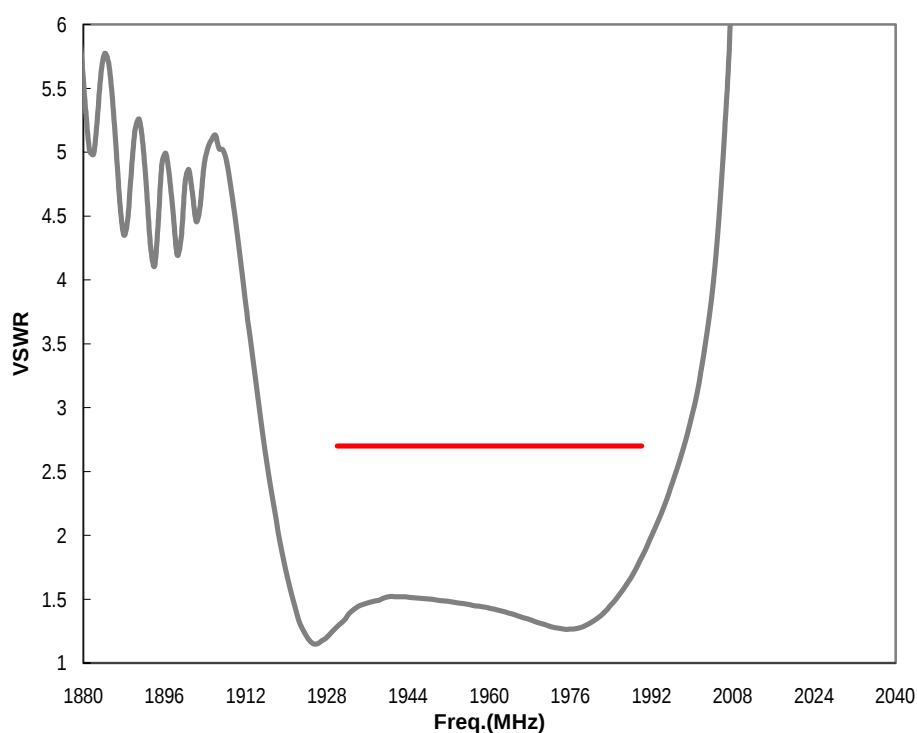


(wideband)

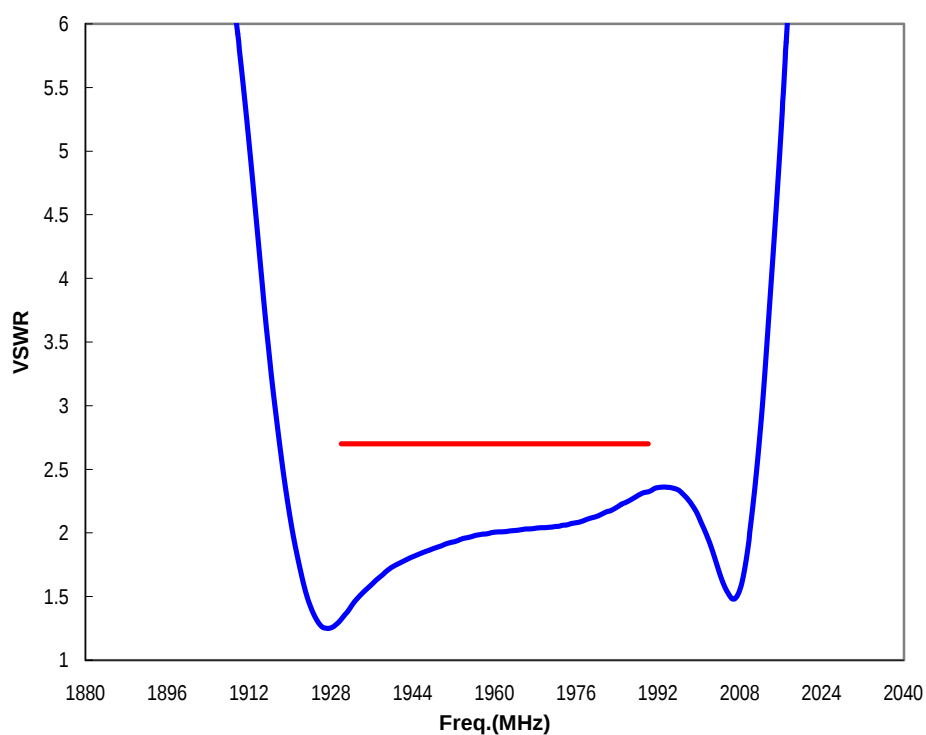


2. VSWR (25)

Unbalance Input



Balance Output



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



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.

