



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: ttsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 836.5MHz SMD 2.5×2.0mm

TST Parts No.:TA0183A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen 

Approval by:_____ Andy Yu 

Date:_____ 2020/12/08

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 836.5 MHz

MODEL NO.: TA0183A

REV. NO.:5.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: +5 V
3. Operating Temperature: -25°C to +80°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device

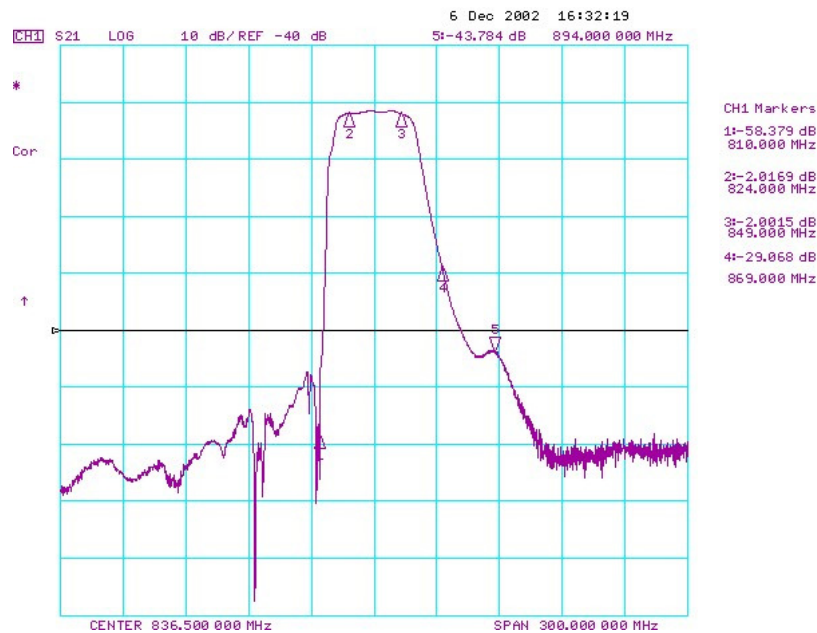
B. ELECTRICAL CHARACTERISTICS:

Item				Min.	Typ.	Max.
Center frequency		F_c	MHz	-	836.5	-
Insertion loss	824 ~ 849 MHz	IL	(dB)	-	2.1	2.8
Amplitude ripple	824 ~ 849 MHz		(dB)	-	0.6	1.3
Return loss	824 ~ 849 MHz			9.0	12.0	-
Attenuation (Reference level from 0 dB)						
	D.C. ~ 790 MHz		(dB)	45	55	-
	790 ~ 810 MHz		(dB)	22	46	-
	869 ~ 894 MHz		(dB)	20	29	-
	894 ~ 914 MHz		(dB)	33	43	-
	914 ~ 2000 MHz		(dB)	40	51	-
	2000 ~ 3000 MHz		(dB)	27	34	-
Rx band suppression	869 ~ 894 MHz		(dB)	20	29	-
Source impedance		Z_s	(Ω)	-	50	-
Load impedance		Z_L	(Ω)	-	50	-
Temperature Coefficient of Frequency			ppm/°C	-	-36	-

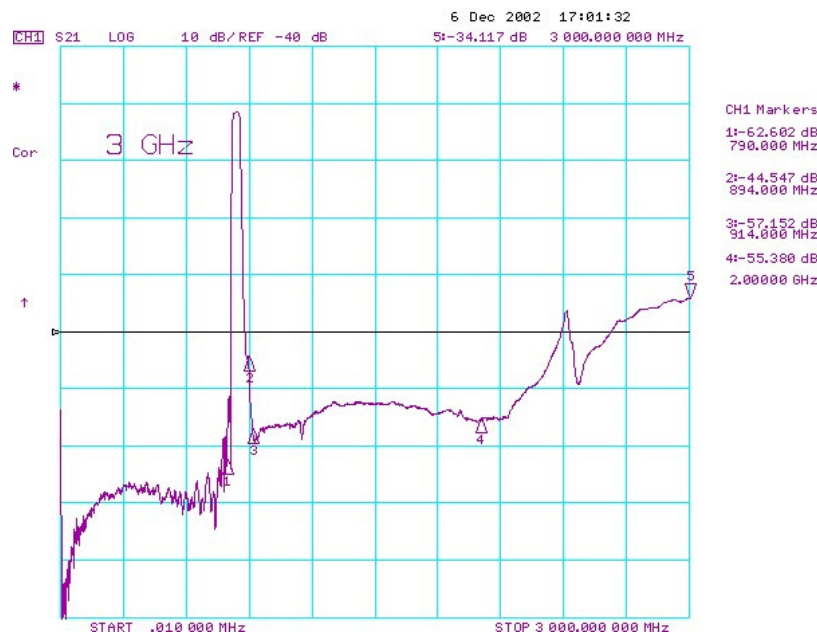
Note1. No matching network required for operation at 50(

C. Frequency Characteristics :

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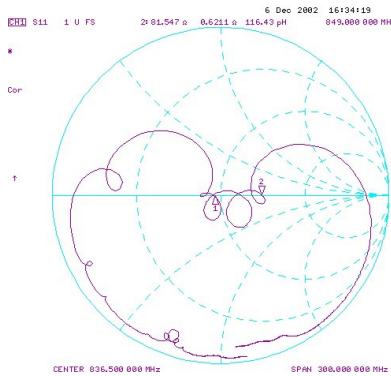
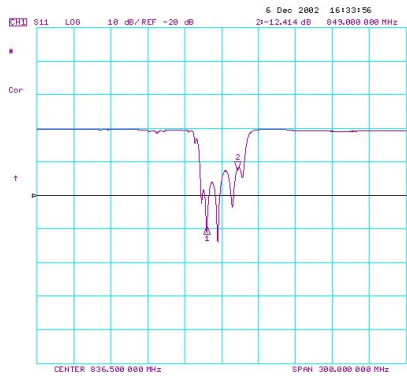


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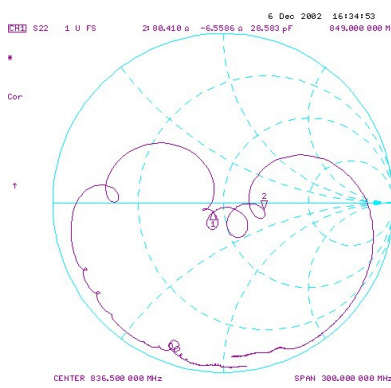
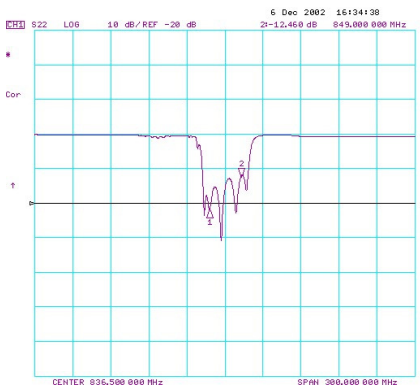


D. Reflections Functions :

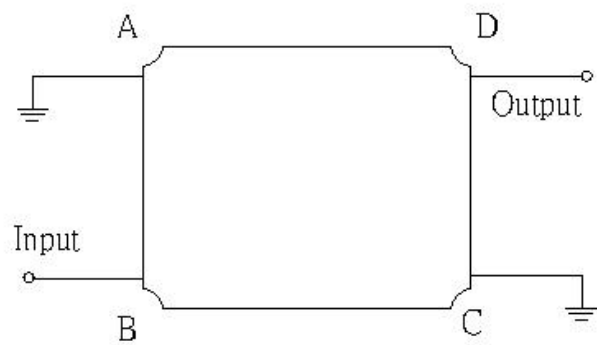
S11:



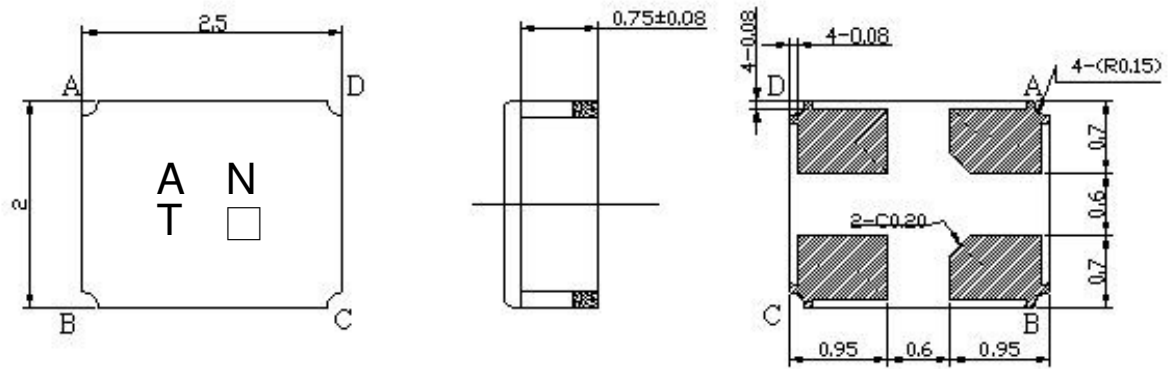
S22:



E. MEASUREMENT CIRCUIT:



F.OUTLINE DRAWING:



B : Input

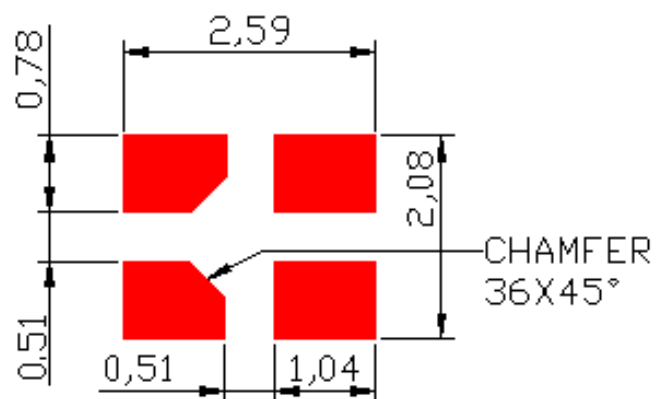
D : Output

A, C : Ground

□ : Date Code

Unit : mm

G. PCB FOOTPRINT:



1. REEL DIMENSION:(Please refer to FR-75D10 for packing quantity)

