



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

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Product Specifications Approval Sheet

Product Description: SAW Filter 836.5 MHz SMD 2.5x2.0 mm

TST Part No.: TA0183B

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ David Chang 張閔智

Approved by: _____ Francis Chen 陳文彬

Date: _____ 2010/11/29

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.: TA0183B

REV. NO.:1

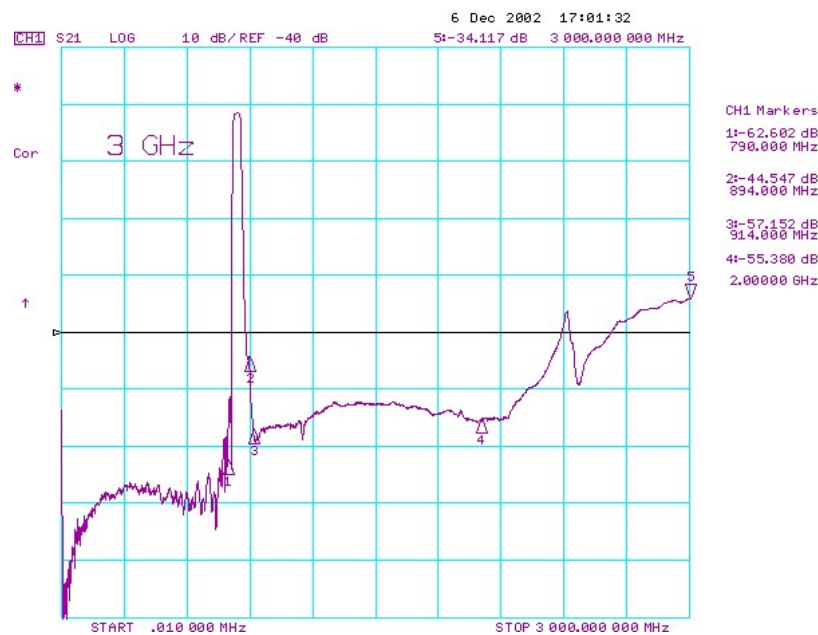
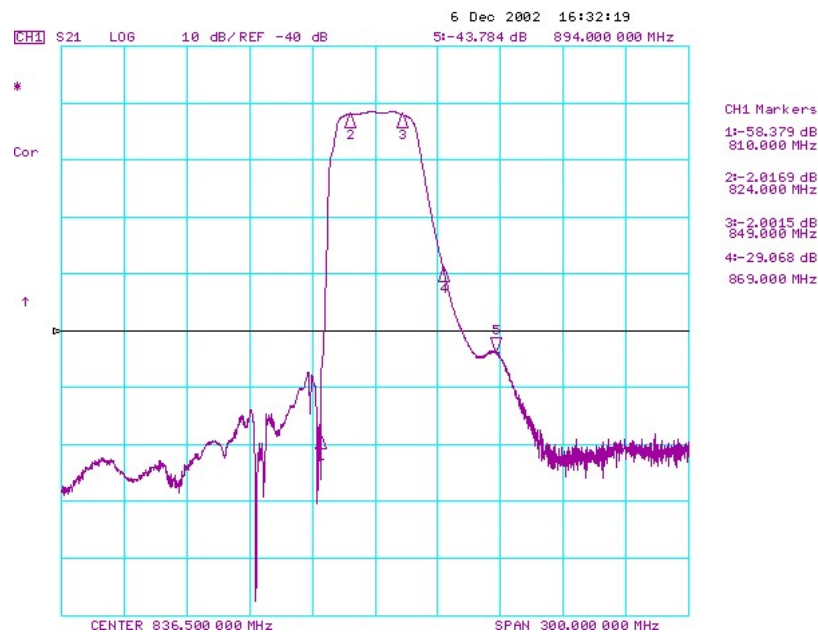
A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: +5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

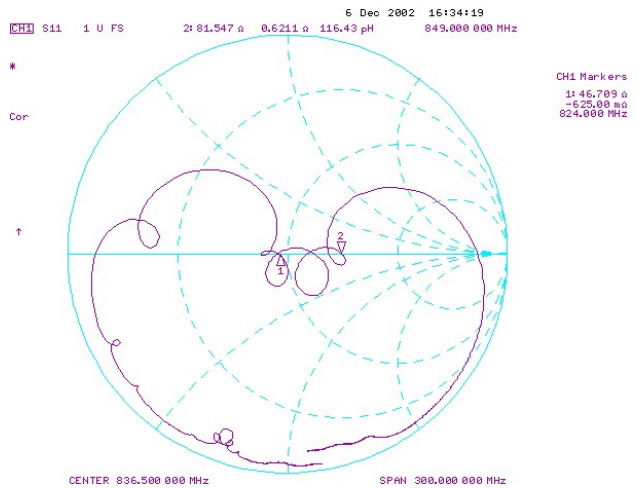
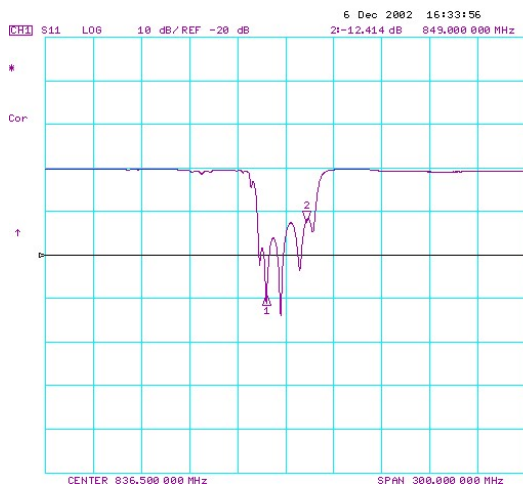
Item	Unit	Min.	Typ.	Max.
Center frequency F_c	MHz	-	836.5	-
Insertion loss 824 ~ 849 MHz IL	dB	-	2.1	2.8
Amplitude ripple 824 ~ 849 MHz	dB	-	0.6	1.3
Return loss 824 ~ 849 MHz	dB	9.0	12.0	-
Attenuation (Reference level from 0 dB)				
D.C. ~ 790 MHz	dB	45	55	-
790 ~ 810 MHz	dB	22	46	-
869 ~ 894 MHz	dB	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	-

C. Frequency Characteristics: (typical performance at 25°C)

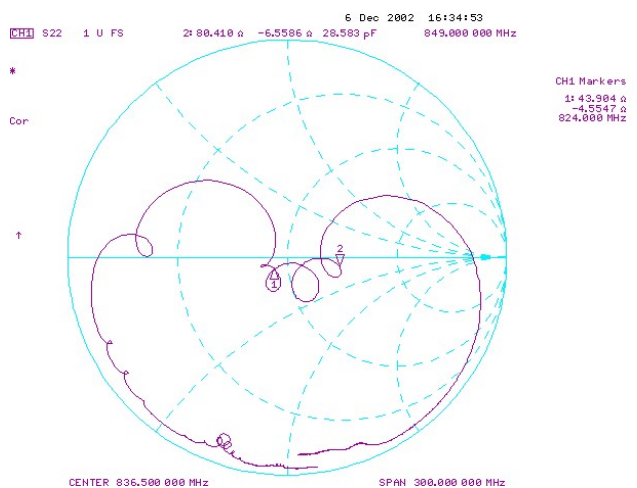


D. Reflections Functions: (typical performance at 25°C)

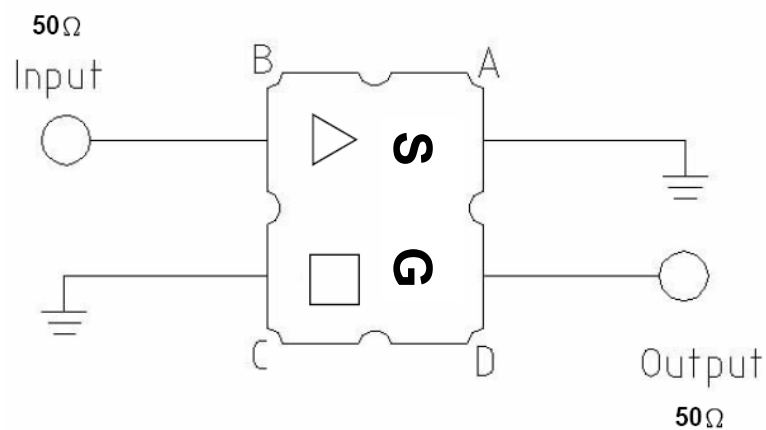
S11:



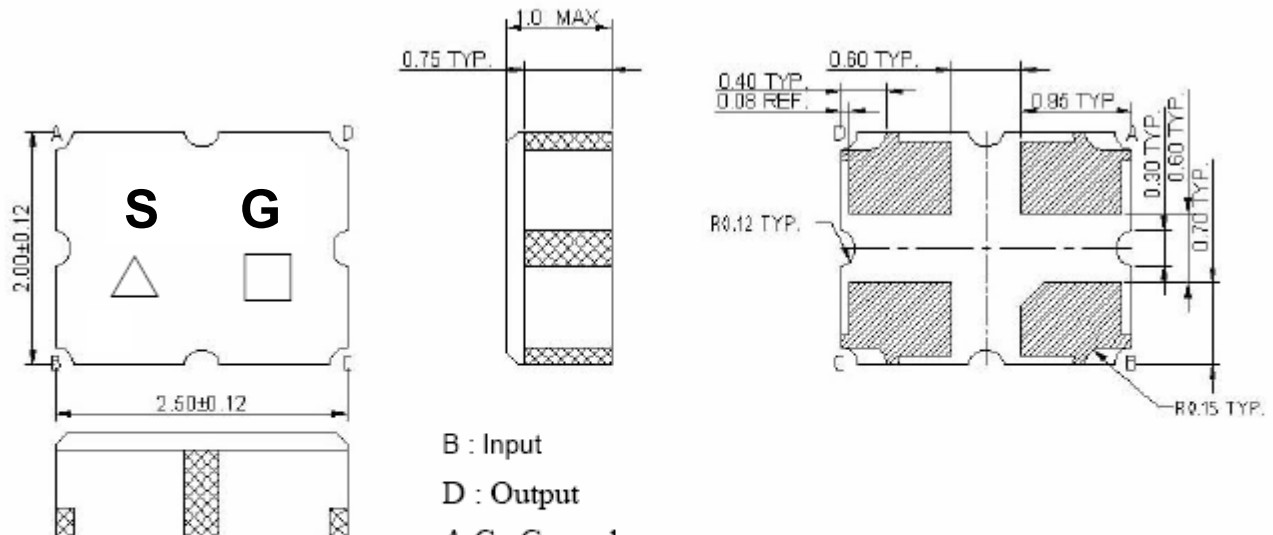
S22:



E. MEASUREMENT CIRCUIT:



F. OUTLINE DRAWING:



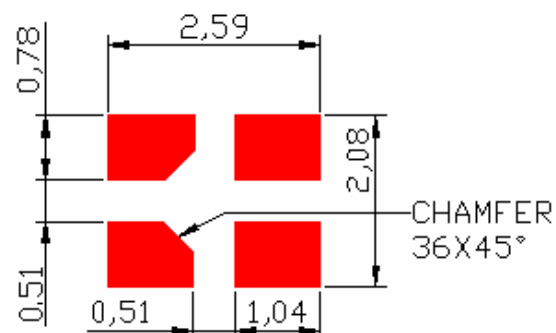
△ : the last digit of the year (2006->6, 2007->7, ...)

□ : the code corresponding the manufacturing week

(A~Z : week 1~week 26 ; a~z : week 27~week 52)

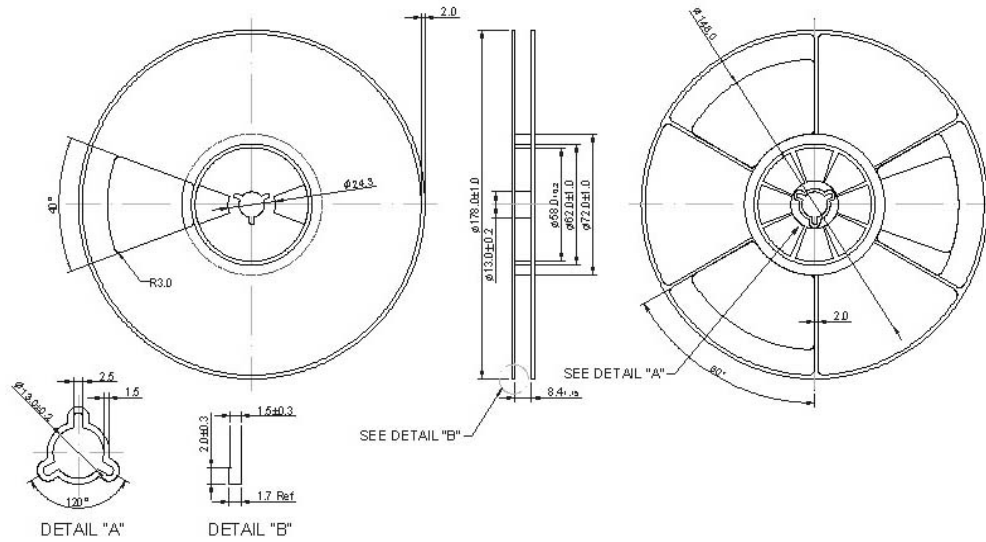
Unit : mm

G. PCB FOOTPRINT:

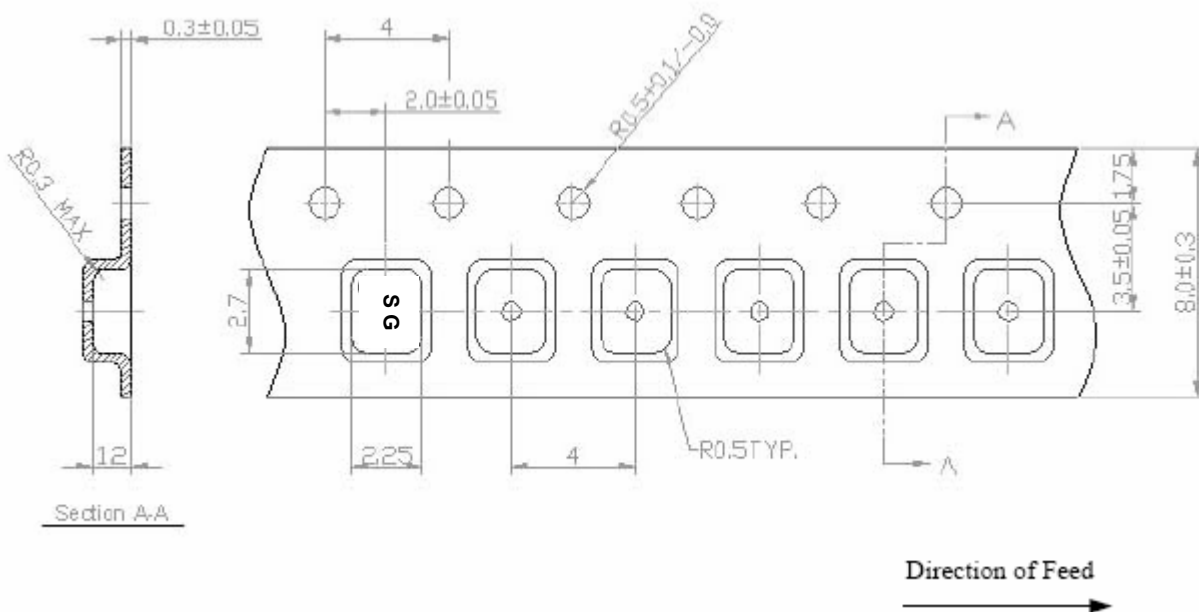


H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



I. 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 250±10°C peak (max. 10sec).
4. Time : 2 times.

