



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Filter 83.17 MHz SMD 11.4X5.0 mm

TST Part No.: TB0803A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Paul Ni

Approved by: _____ Francis Chen

Date: _____ 2009/10/28

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 83.17MHz

MODEL NO.:TB0803A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

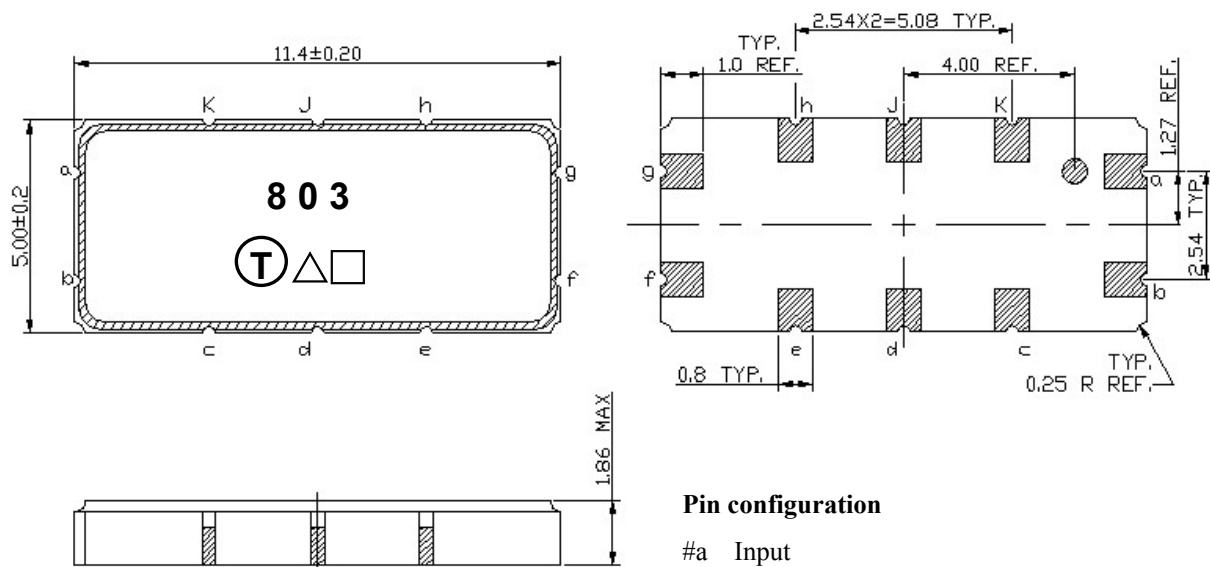
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS: (Ambient temperature : 25°C)

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	83.17	-	-
Minimum Insertion loss IL	dB	-	2.9	5.0	-
Pass band ripple Fc±15 kHz	dB	-	0.5	1.5	-
Group Delay Variation Fc±15 kHz	μs	-	4	10	-
Relative Attenuation (relative to 0 dB)					
Fc -1000 kHz ~ Fc - 120 kHz	dB	40	50	-	-
Fc - 120 kHz ~ Fc - 60 kHz	dB	17	28	-	-
Fc + 60 kHz ~ Fc + 120 kHz	dB	17	28	-	-
Fc + 120 kHz ~ Fc +1000 kHz	dB	40	56	-	-
Temperature coefficient of frequency TCf	-0.033 ppm/C ²				

Note1. Considering -6 KHz frequency shift from -20°C to +70°C

C. OUTLINE DRAWING:



Pin configuration

#a Input

#b Input RF-Return

#f Output

#g Output RF-Return

#c,d,e,h,j,k To be grounded

△ Year code

□ Date code(Follow the table from planner each year)

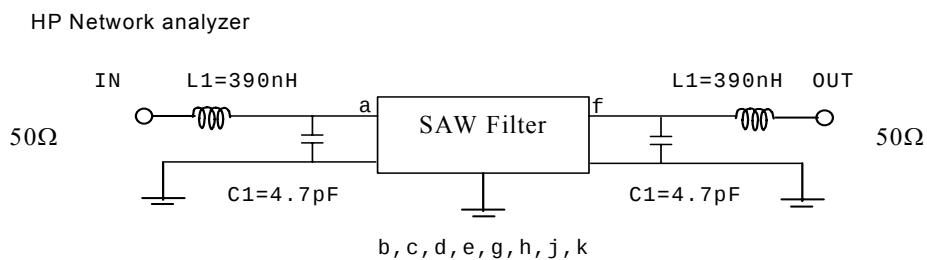
Unit mm

Product Year Code

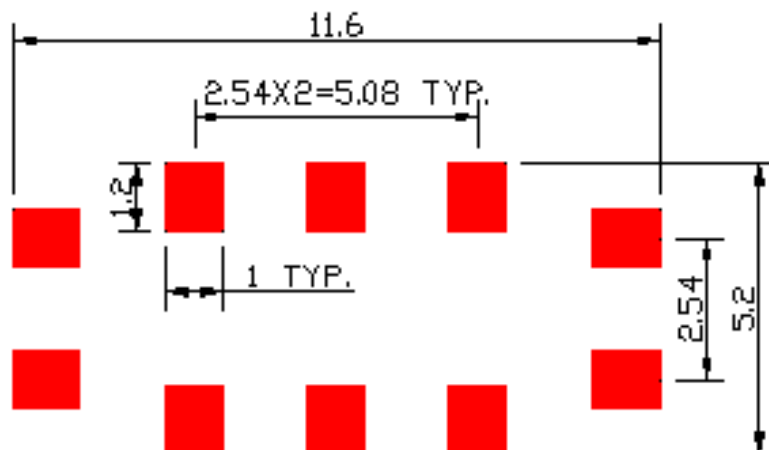
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

D. MEASUREMENT CIRCUIT:

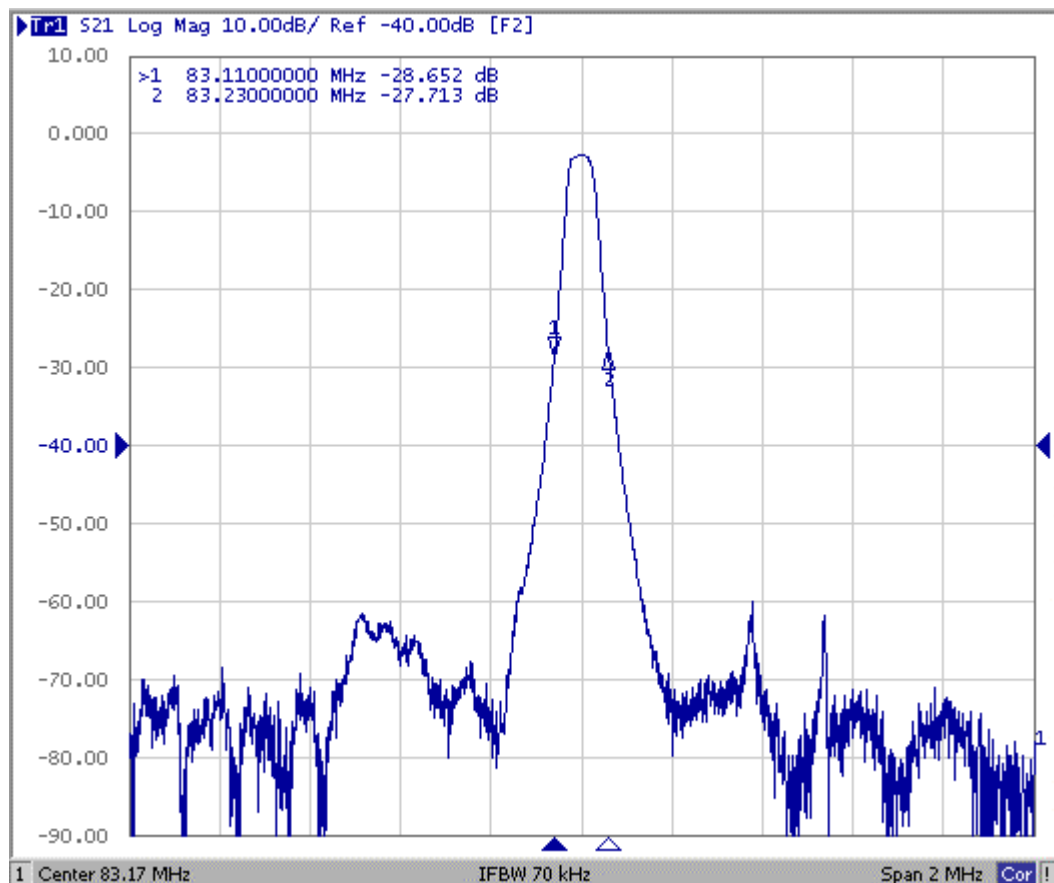
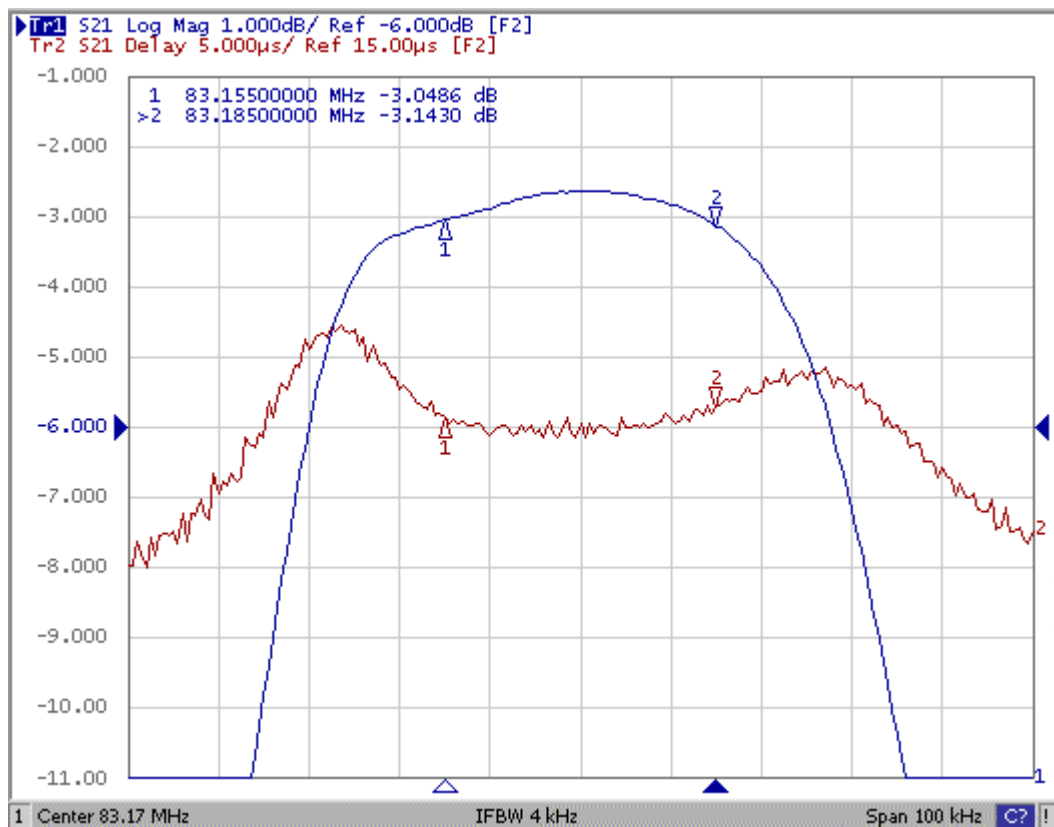
50 Ohm Test circuit (single-ended / single-ended)



E. PCB Footprint:

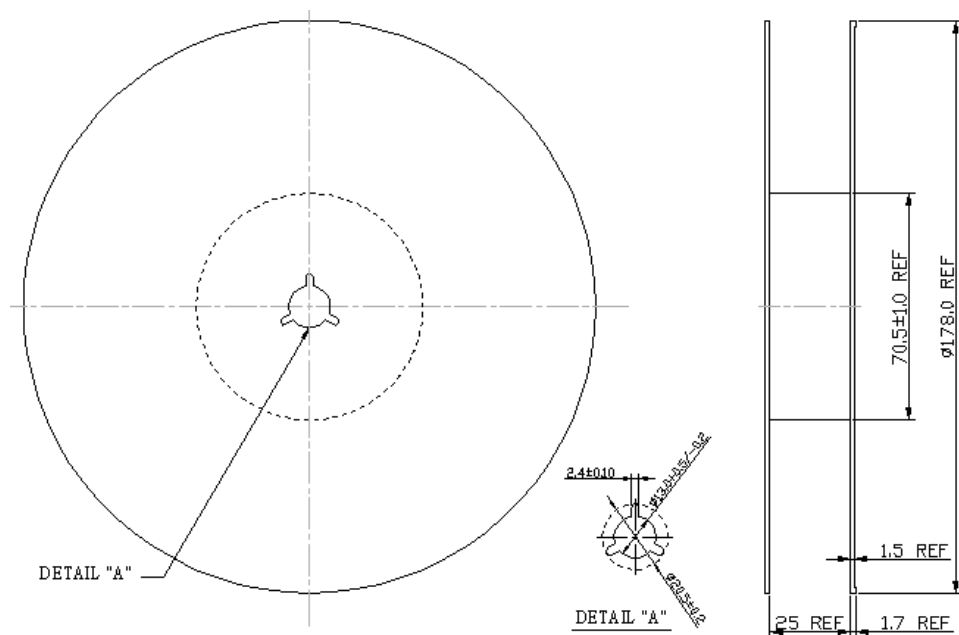


F. Frequency Characteristics :

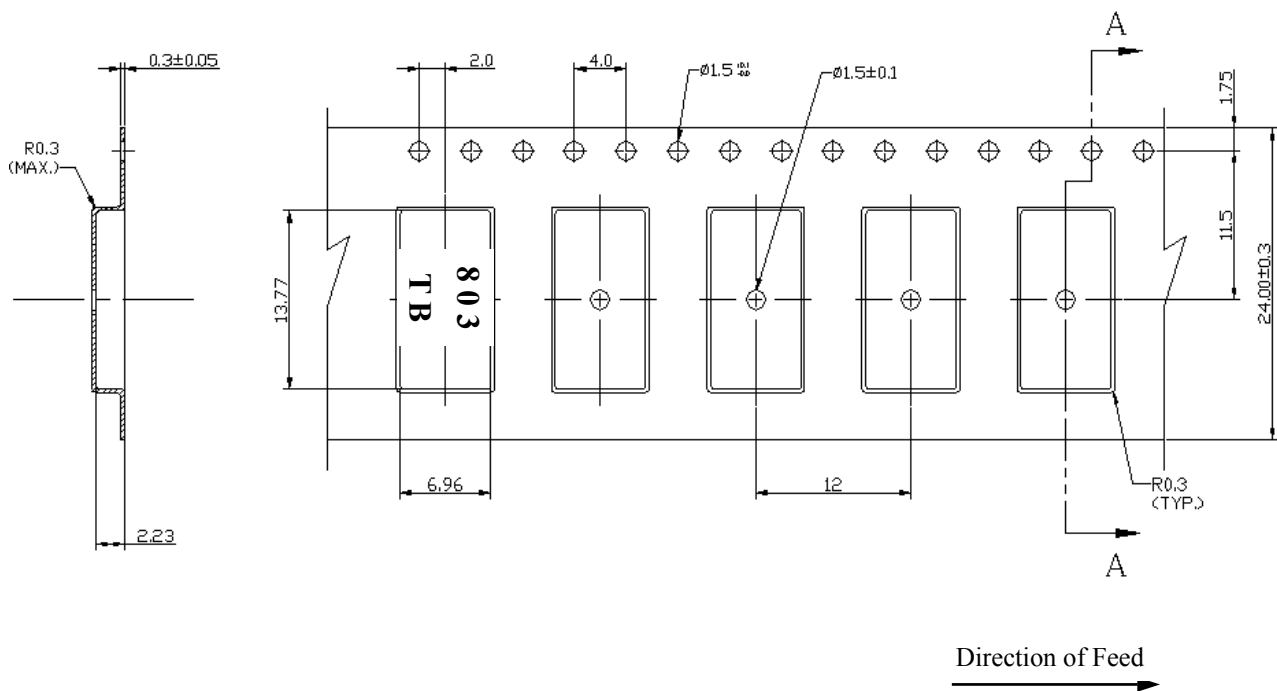


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

