



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 431 MHz SMD 3.8x3.8 mm

TST Part No.: TA1118A

Customer Part No.: _____

Customer signature required

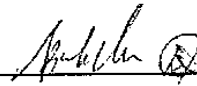
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang 張閔智

Approved by: _____ Francis Chen 

Date: _____ 2009/11/23

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 431 MHz

MODEL NO.:TA1118A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -30°C to +60°C
4. Storage Temperature: -40°C to +85°C

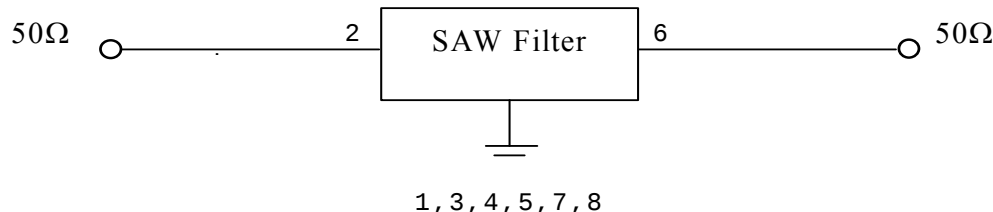
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

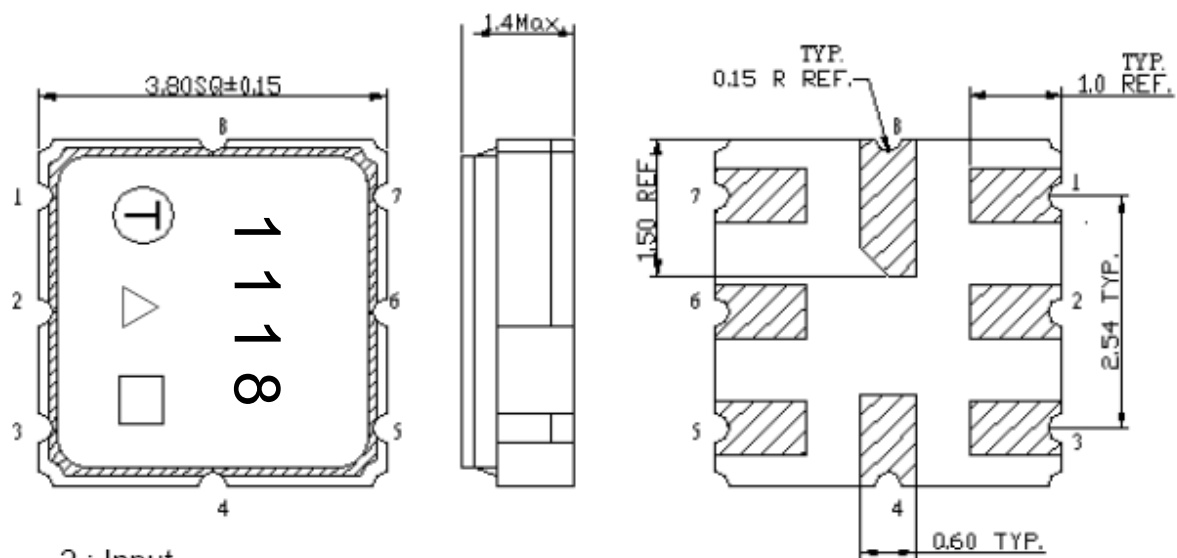
Item	Unit	Min.	Type.	Max.
Center frequency Fc	MHz	-	431	-
Insertion loss (421~441 MHz) IL	dB	-	3.3	4.2
Amplitude Ripple (421~441 MHz)	dB	-	1.1	2.4
Return loss (421~441 MHz)	dB	7	10	-
Attenuation (Reference level from 0 dB)				
0.3 ~ 300 MHz	dB	30	53	-
300 ~ 380 MHz	dB	24	48	-
380 ~ 401 MHz	dB	15	41	-
475.825 ~ 524.825 MHz	dB	12	28	-
559.65 ~ 579.65 MHz	dB	28	54	-
669.3 ~ 689.3 MHz	dB	24	49	-
689.3 ~ 1000 MHz	dB	26	46	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D.OUTLINE DRAWING:



2 : Input

6: Output

1,3,4,5,7,8: Ground

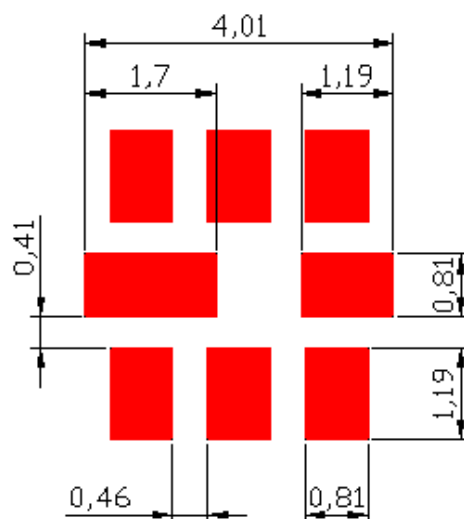
△ : Year Code

□ : Date Code (W01->A, W02->B,...,W52->z)

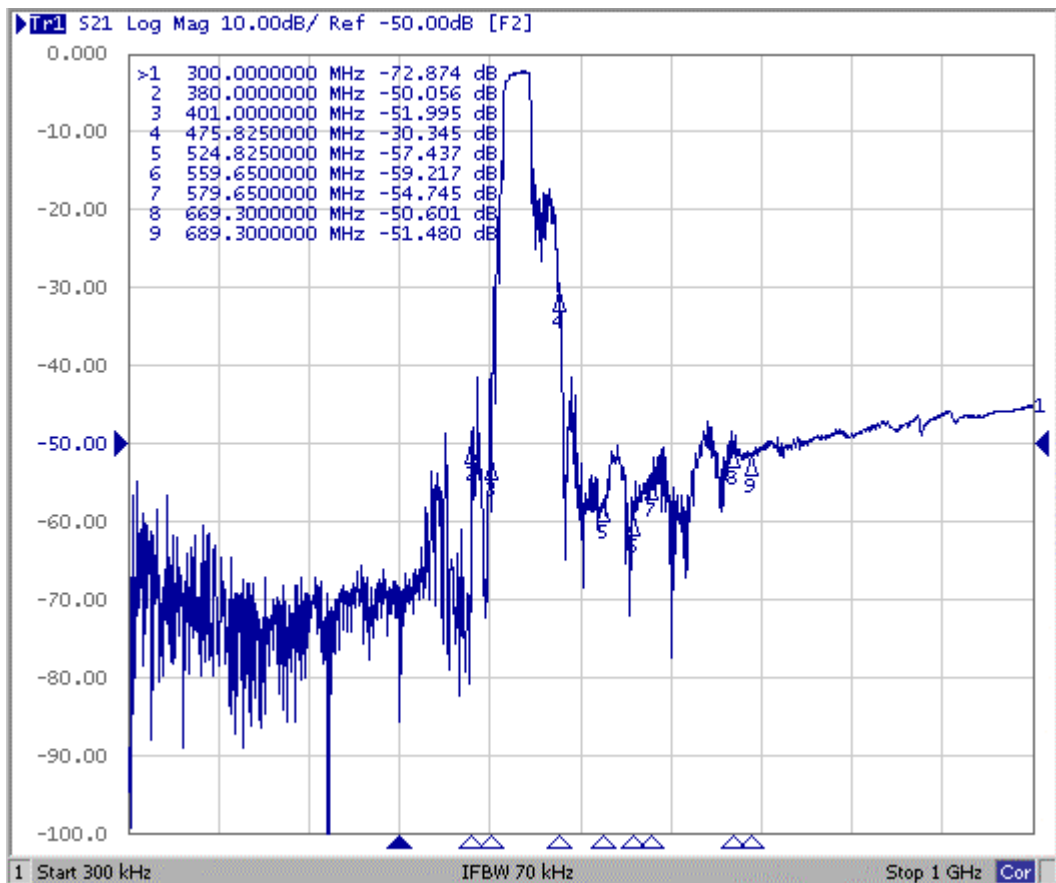
△ Product Year Code

Year	2007	2008
	2009	2010
	2011	2012
Product Code	A	a

E. PCB Footprint:



F. Frequency Characteristics :



1. REEL DIMENSION

Technical drawing of a circular plate. The main view shows a large circle with a central hole. The hole is defined by a dashed circle. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right of the main view, a vertical dimension line indicates the thickness of the plate, labeled "12 TYP.". Below the main view, a detailed view of the central hole is shown. This detail view includes the following dimensions:

- Outer diameter: $\phi 130 \pm 0.3 / -0.2$
- Inner diameter: $\phi 20 \pm 0.1$
- Plate thickness: 2.0 ± 0.5

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H. RECOMMENDED REFLOW PROFILE :

