



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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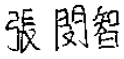
## Product Specifications Approval Sheet


Product Description: SAW Filter 403.5 MHz SMD 3.8x3.8 mm

TST Part No.: TA0520A

Customer Part No.: \_\_\_\_\_

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

Checked by: David Chang 

Approved by: Francis Chen 

Date: 2009/07/01

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 403.5 MHz

MODEL NO.: TA0520A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 15 dB<sub>m</sub>
2. DC voltage: 3 V
3. Operating Temperature: -10°C to 60°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

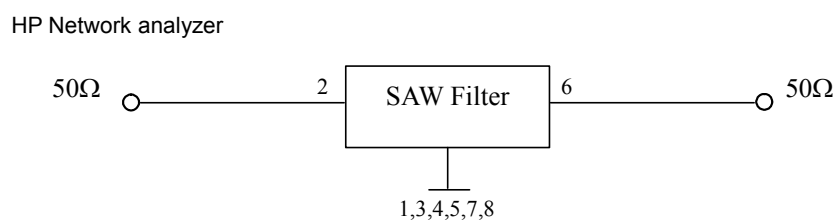
### B. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typical	Max.
Center frequency	F <sub>c</sub> MHz	-	403.5	-
Minimum Insertion loss	402 ~ 405 MHz IL <sub>min</sub> dB	-	1.6	2.5
Passband Ripple	402 ~ 405 MHz	-	0.5	1.25
3dB Bandwidth	BW <sub>-3dB</sub> MHz	3	7.5	-
Attenuation (Reference level from IL <sub>min</sub> dB)				
358.5	MHz dB	40	65	-
358.5~384.0	MHz dB	35	50	-
415.0~423.0	MHz dB	25	35	-
423.0~503.0	MHz dB	40	51	-
Temperature coefficient of frequency	ppm/k		-37	
Source impedance	Z <sub>s</sub> Ω	-	50	-
Load impedance	Z <sub>L</sub> Ω	-	50	-

Note1: IL<sub>min</sub> is the minimum of the pass band attenuation. The center frequency F<sub>c</sub> is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL<sub>min</sub>.

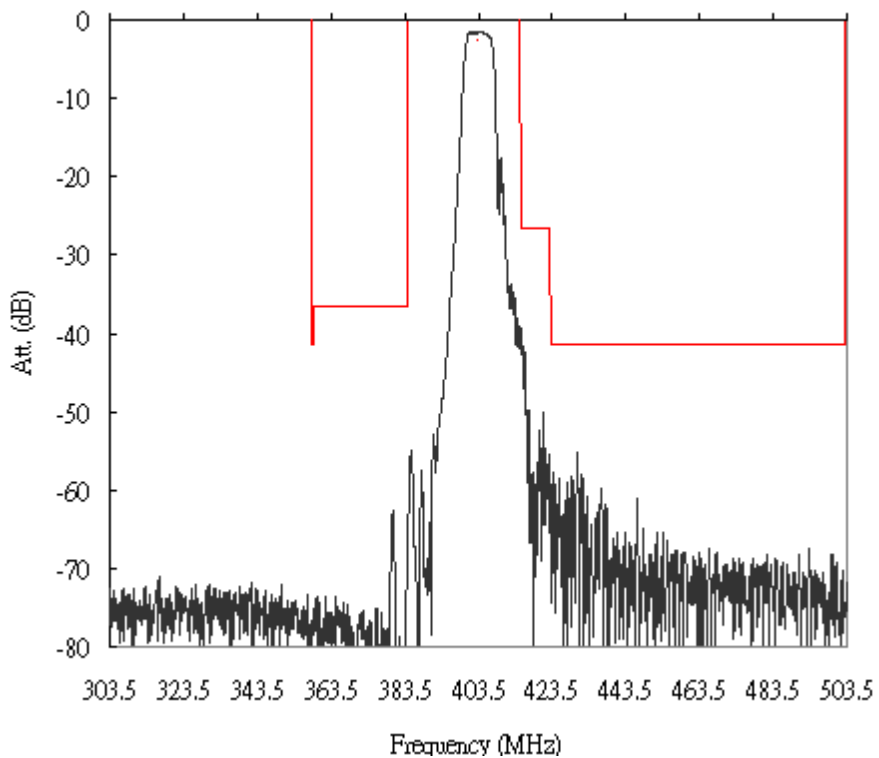
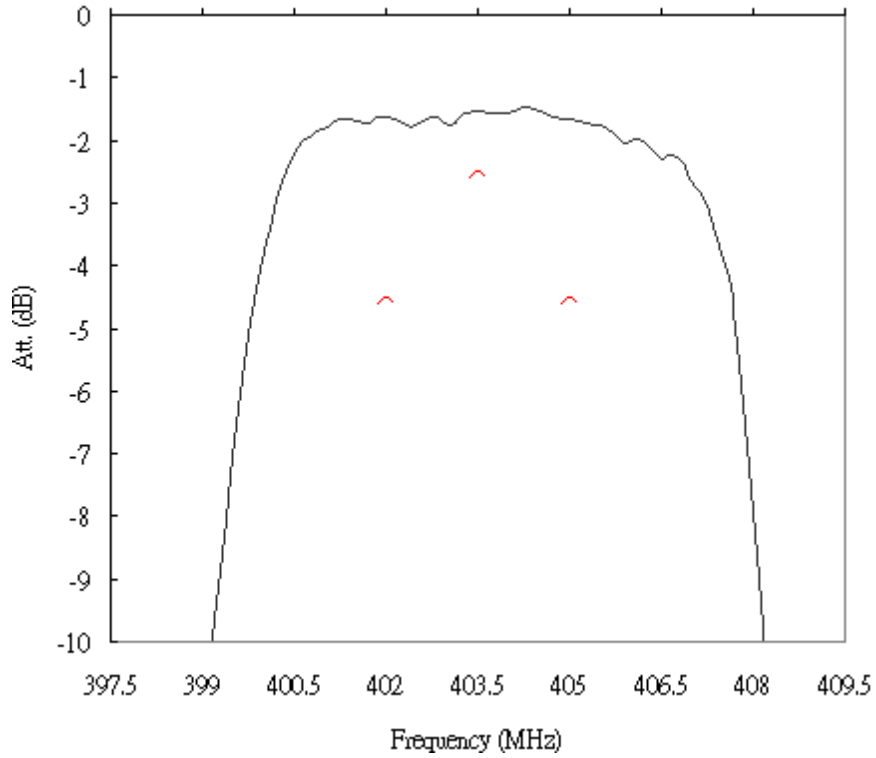
Note2: The room temperature, Tr, is 25° C. FTC is temperature coefficient of frequency. The nominal frequency at temperature, Tc, may be calculated from  $f = F_c [1 - FTC(T_r - T_c)]$ .

### C. MEASUREMENT CIRCUIT:

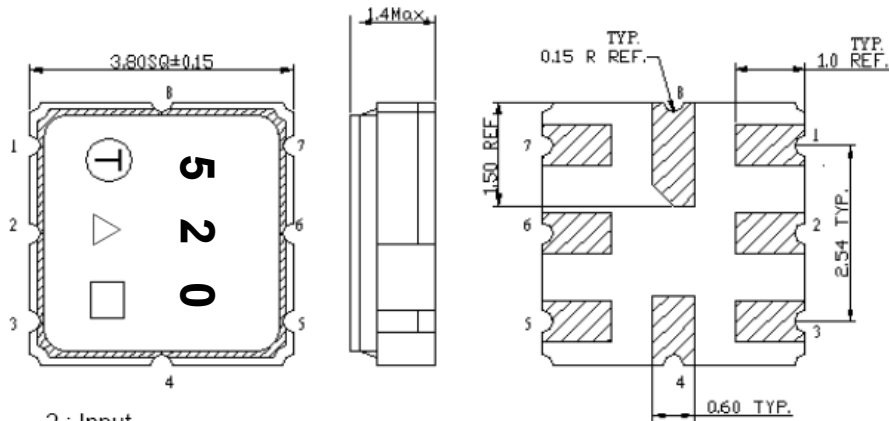


### D. FREQUENCY CHARACTERISTICS:

Transfer Function



### E.OUTLINE DRAWING:

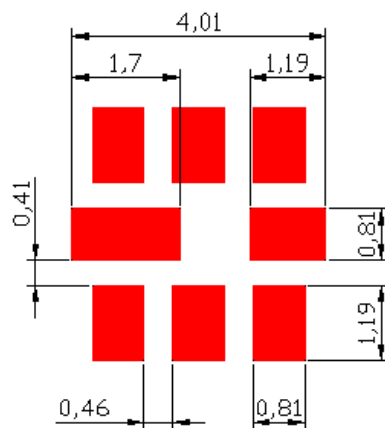


- 2 : Input
- 6: Output
- 1,3,4,5,7,8: Ground
- △ : Year Code
- : Date Code (W01->A, W02->B, ..., W52->z)

△ Product Year Code

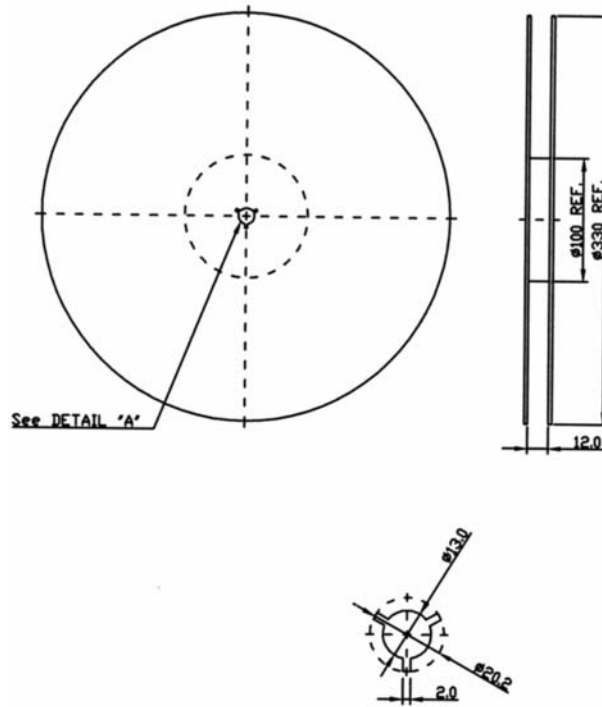
Year	2007	2008
	2009	2010
	2011	2012
	.	.
Product Code	A	a

### F.PCB FOOTPRINT:

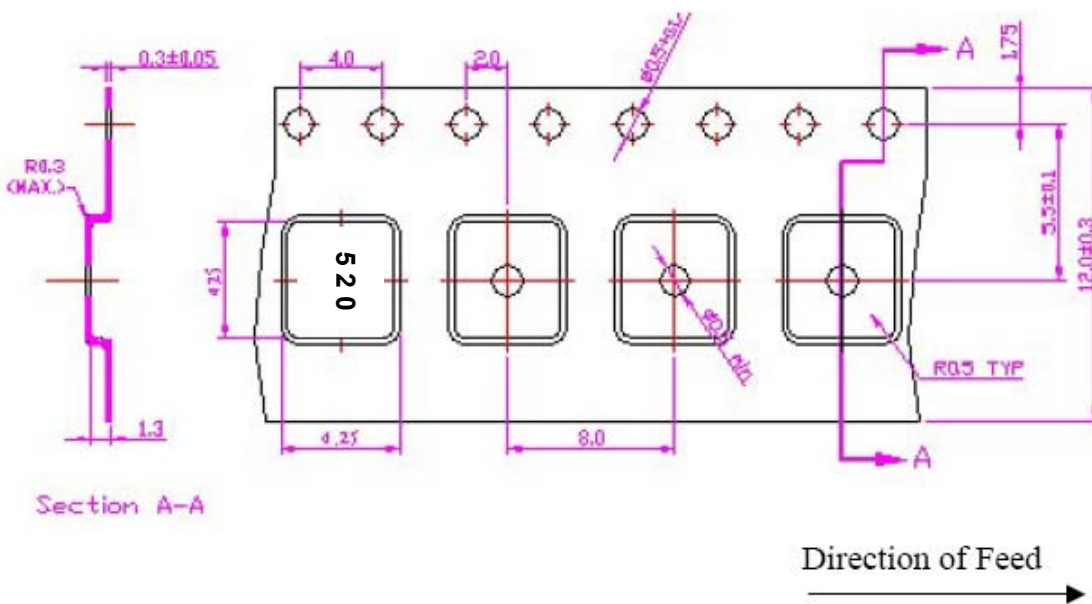


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



## H.RECOMMENDED REFLOW PROFILE:

