



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet for Product Specification

Issued Date:

Product Name: 366.5MHz IF SAW Filter (BW=23 MHz)

TST Parts No.: TB0489A

Customer Parts No.: \_\_\_\_\_

Company: \_\_\_\_\_

Division: \_\_\_\_\_

Approved by : \_\_\_\_\_

Date: \_\_\_\_\_

Checked by: \_\_\_\_\_ Andy Yu

Approval by: \_\_\_\_\_ Francis Chen

Date: \_\_\_\_\_ 04/19/2007



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SAW Filter 366.5MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0489A

Rev. NO. 1

## A. MAXIMUM RATING:

1. Operating Temperature: -20 °C ~ 70 °C
2. Storage Temperature: -40 °C ~ +85 °C

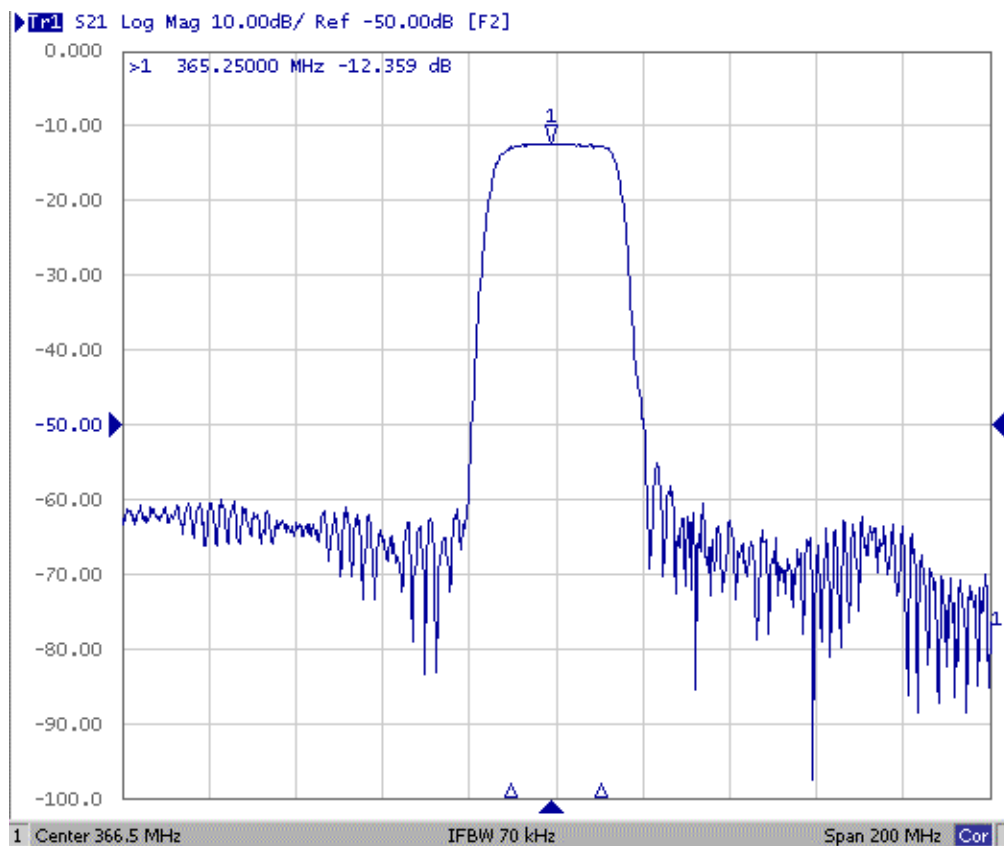
RoHS Compliant  
Lead free  
Lead-free soldering

## B. Characteristics :

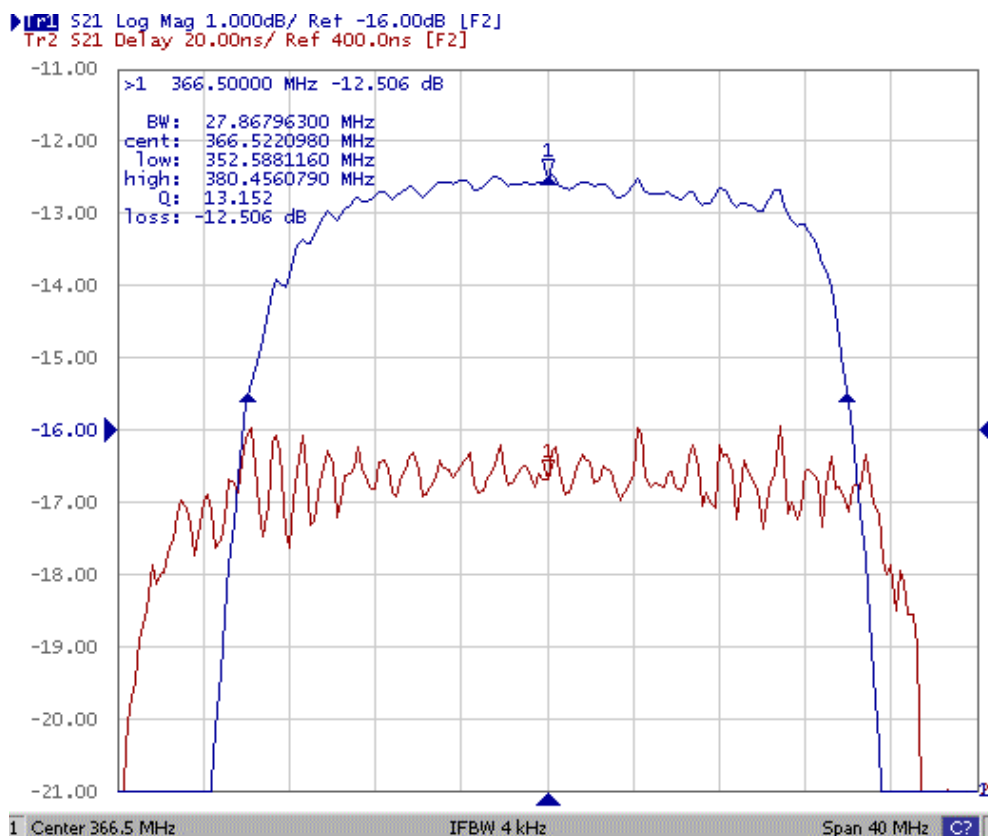
| Characteristics                                                                                                                                 | Value |       |      | Note |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|
|                                                                                                                                                 | Min.  | Typ.  | Max. |      |
| Center frequency $F_c$ MHz                                                                                                                      | -     | 366.5 | -    | -    |
| Minimum Insertion loss I.L. dB                                                                                                                  | -     | 12.5  | 13.5 | -    |
| 3dB BW MHz                                                                                                                                      | 23    | 27    | -    |      |
| Amplitude Ripple ( $F_c \pm 10.5\text{MHz}$ ) dB                                                                                                | -     | 0.6   | 1.0  | -    |
| Relative Rejection (Reference to Minimum Insertion loss)                                                                                        |       |       |      |      |
| $F_c \pm 33.5\text{MHz}$ dB                                                                                                                     | 30    | 42    | -    | -    |
| $F_c \pm 55.5\text{MHz}$ dB                                                                                                                     | 45    | 52    | -    | -    |
| Temp Coefficient ppm/K                                                                                                                          | -     | -94   | -    | -    |
| <b>Matching:</b><br>1. The input of the filter will be matched to <u>50 ohm</u><br>2. The output of the filter will be matched to <u>50 ohm</u> |       |       |      |      |

## C. FREQUENCY CHARACTERISTICS:

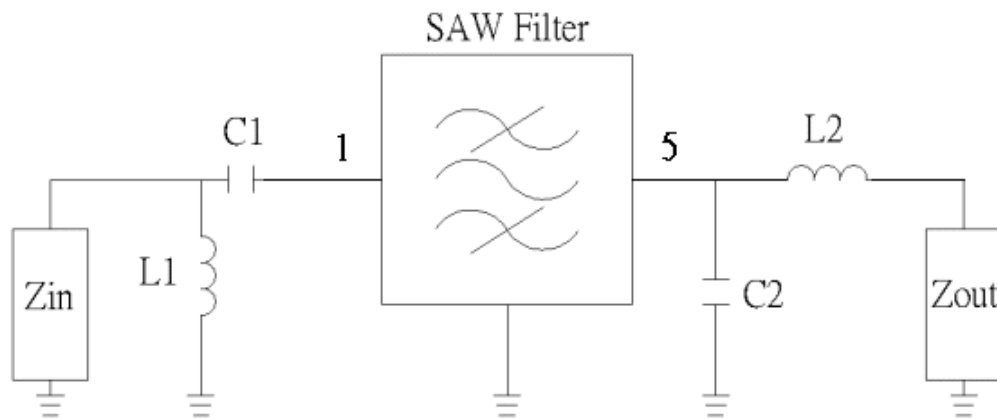
### (1) S21 Response: (span 200MHz)



### (2) Passband of Response: (span: 40MHz)



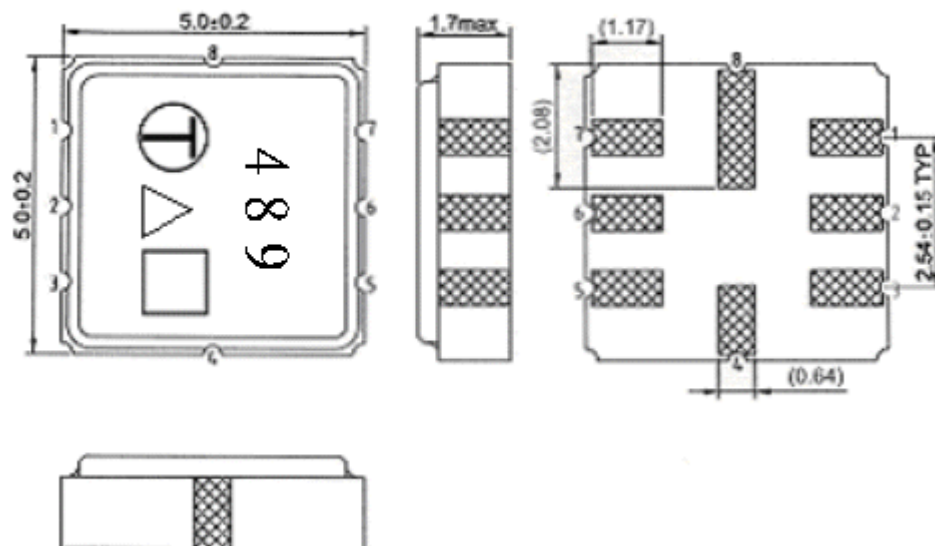
#### D. TEST CIRCUIT:



$Z_{in}$  and  $Z_{out}$  are  $50\Omega$

$L1=27nH$ ,  $C1=18pF$ ,  $L2=10nH$ ,  $C2=10pF$

#### E. OUTLINE DRAWING:



Pin 1: RF input

Pin 5: RF output

Pin 4,8: Case Ground

Pin 2,3,6,7: Ground

□ : Week Code (Follow the table from planner each year)

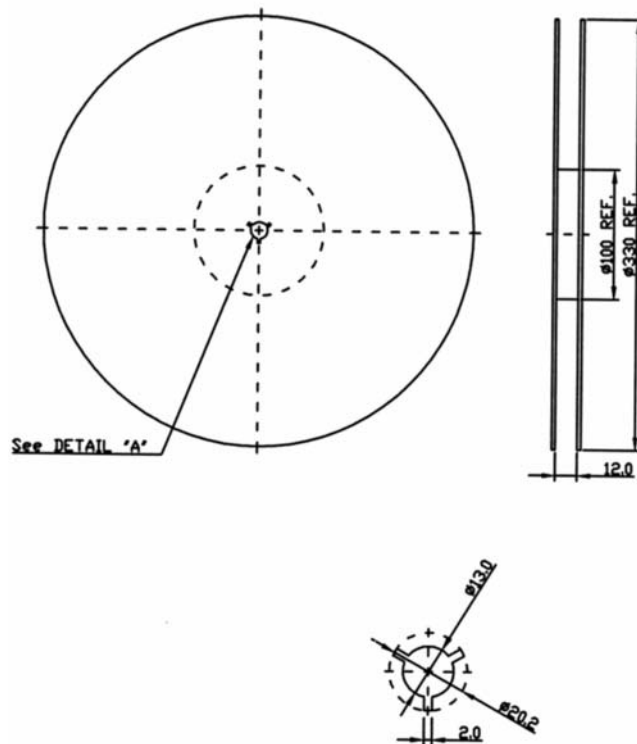
Unit : mm

△ : Product / Year Code

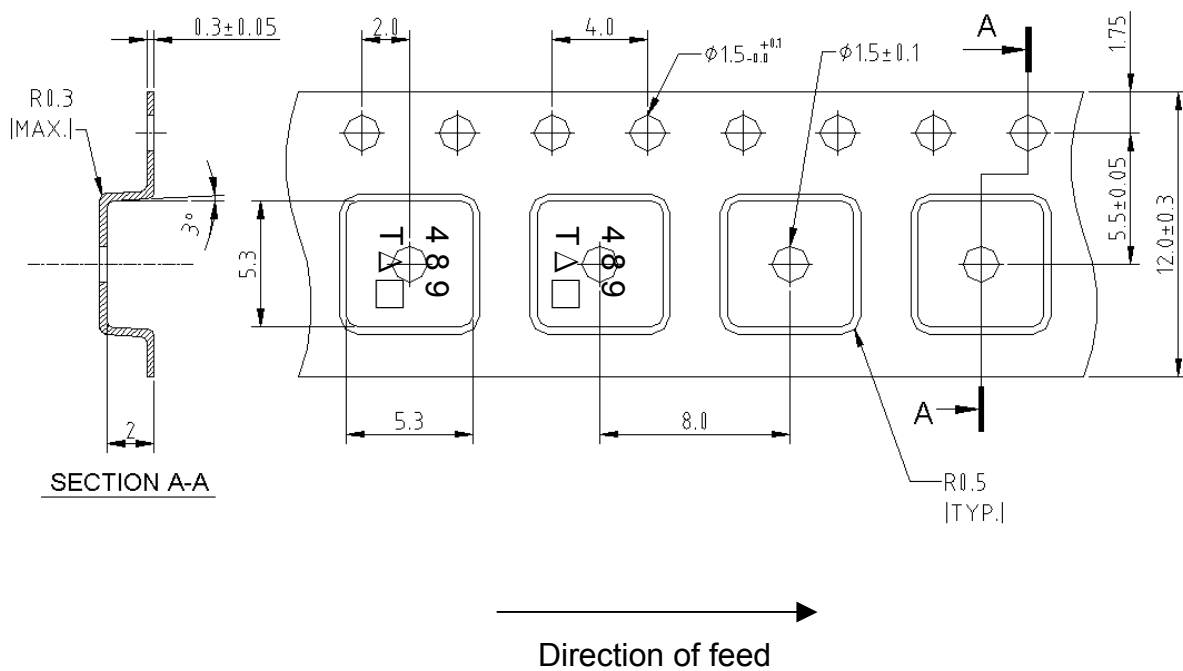
| Year         | 2005<br>2009 | 2006<br>2010 | 2007<br>2011 | 2008<br>2012 |
|--------------|--------------|--------------|--------------|--------------|
| Product Code | B            | b            | <u>B</u>     | <u>b</u>     |

F.PACKING:

## 1. REEL DIMENSION



## 2.TAPE DIMENSION



G. Recommended Reflow Profile:

