



# 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 Name: Dielectric filter 5825MHz BW 200MHz 4.46x2.75mm

TST Parts No.: TR0022A

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

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

Checked by: \_\_\_\_\_ Hongpu Lin *Hong Pu Lin*

Approved by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 2019/11/11

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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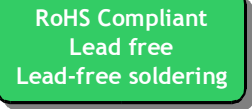
## Dielectric filter 5825MHz BW 200MHz

MODEL NO.: TR0022A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 1W max.
2. DC Voltage : 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature:-40°C to +85°C
5. Input/output impedance: 50 Ω
6. Moisture Sensitivity Level: Level 3

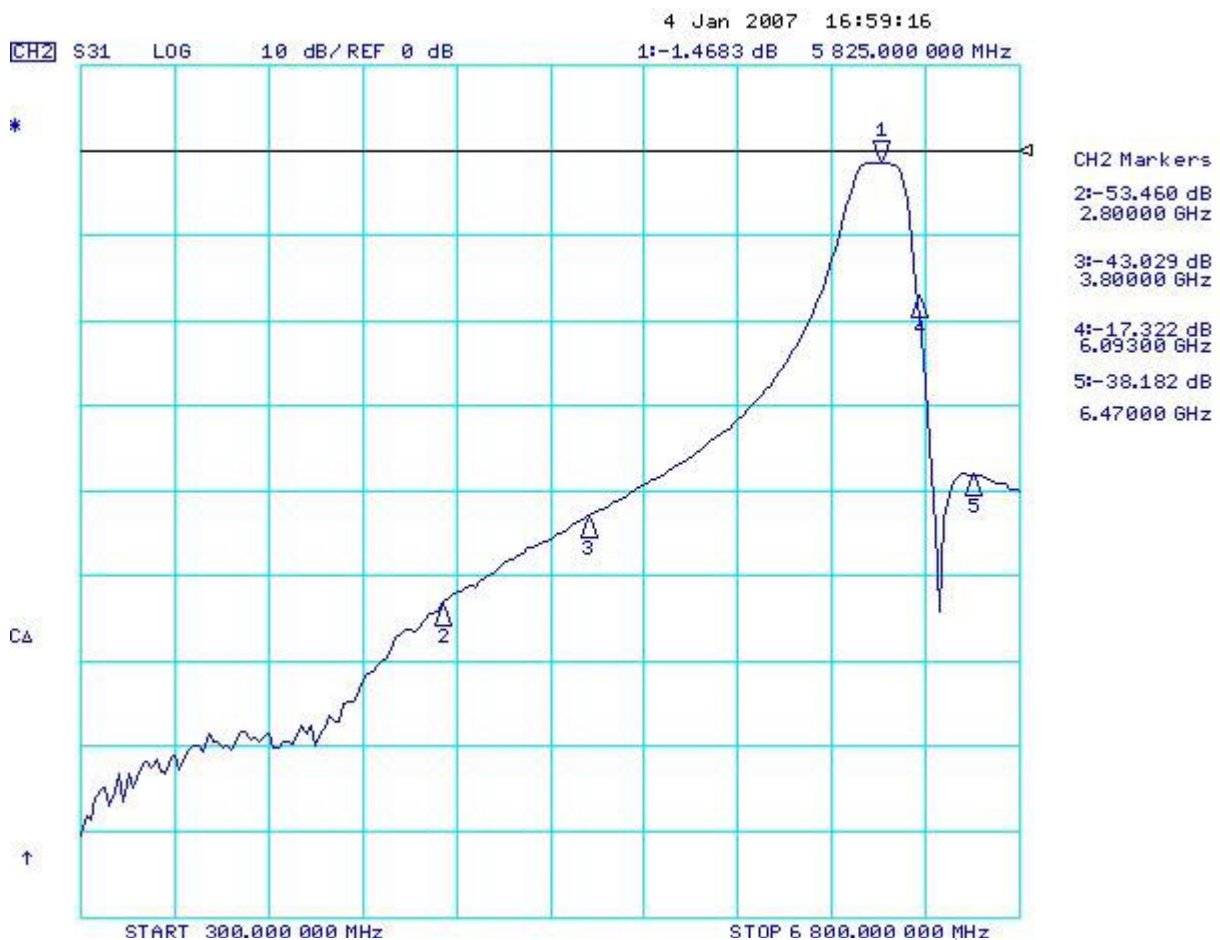
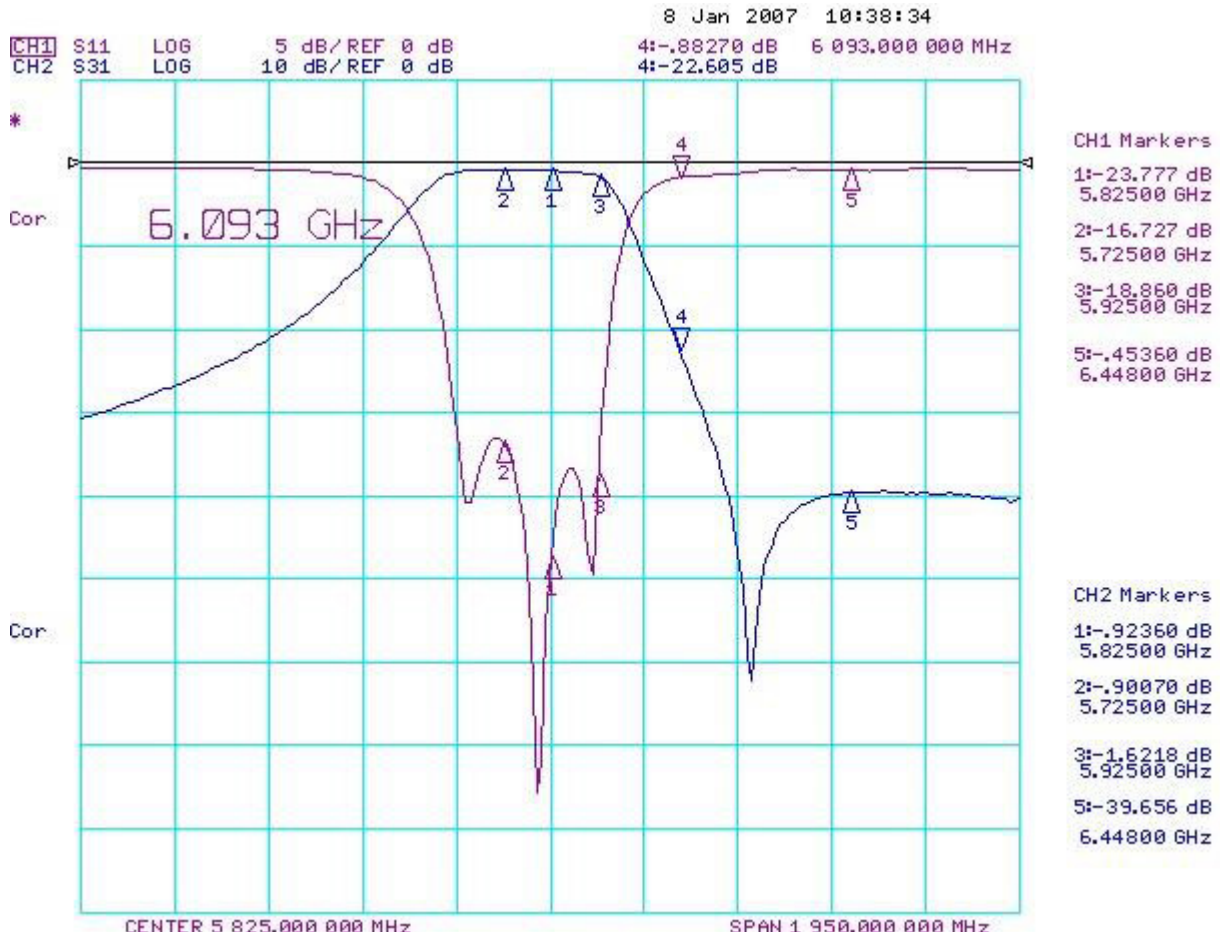


Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

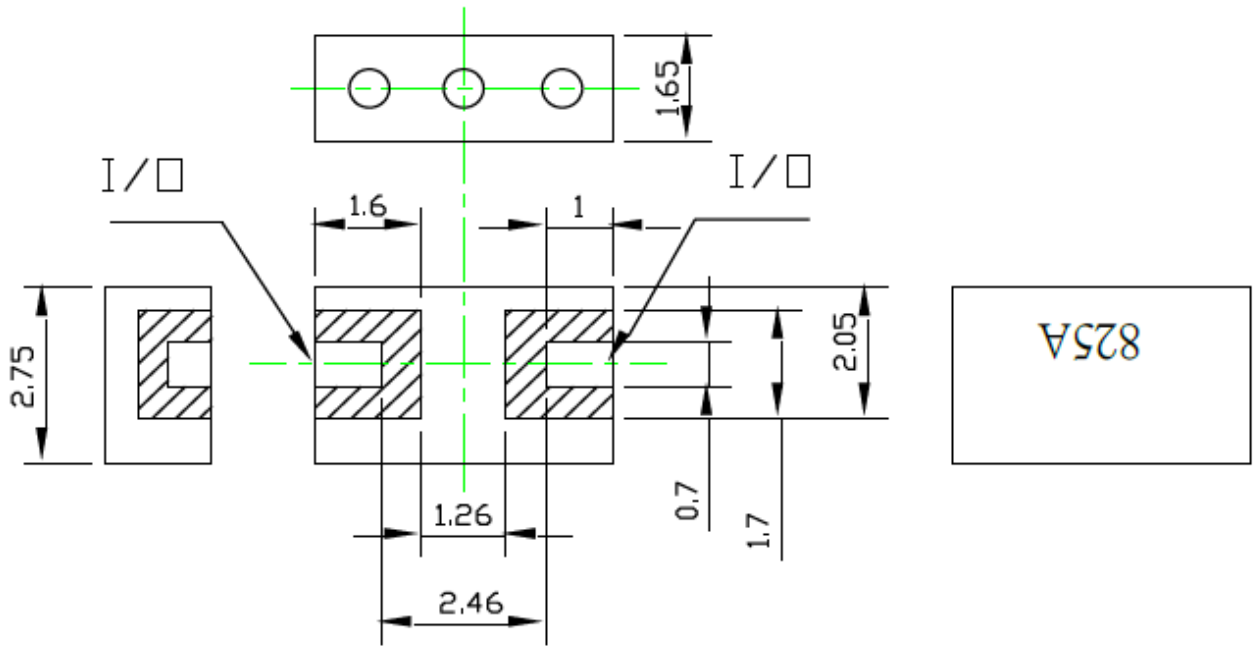
Item		SPECIFICATION			
		Min.	typ	Max.	UNIT
PASS BAND INSERTION LOSS (5725~5925MHz)			1.5	2.0	dB
PASS BAND RIPPLE (5725~5925MHz)			0.8	1.2	dB
PASS BAND RETURN LOSS (5725~5925MHz)		15	16		dB
STOP-BAND ATTENUATION	at 6093~6325 MHz	20	22		dB
	at 6470~6621 MHz	35	37		dB
	at 3300~3800 MHz	38	43		dB
	at 2300~2800 MHz	48	53		dB

### C. FREQUENCY CHARACTERISTICS:



**D. DIMENSION AND PCB LAYOUT:**

**1. SHAPE AND DIMENSION**

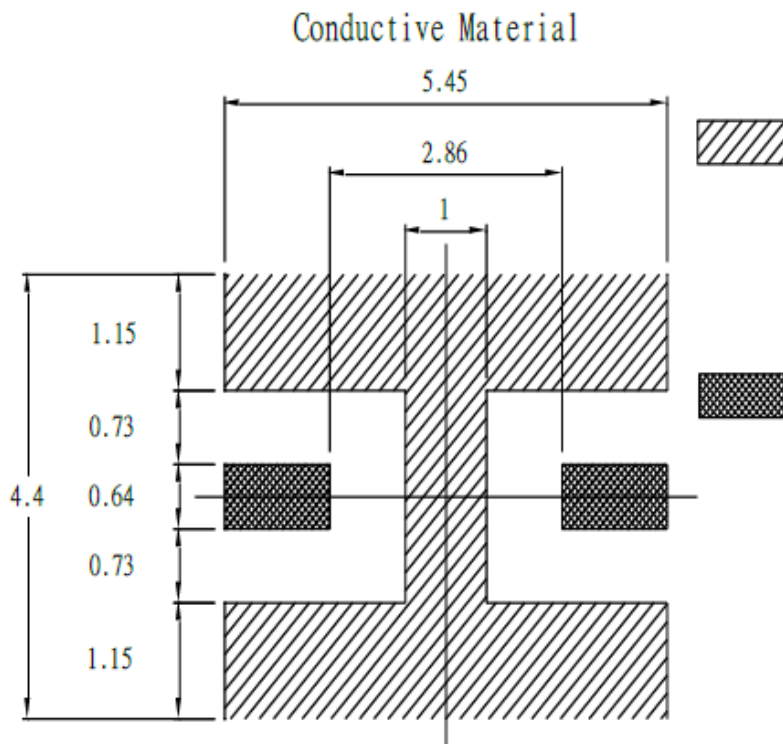


825A : Product name (5825A)

Unit :mm

Tolerance : +/- 0.15

**2. PCB RECOMMENDED PATTERN FOR FILTER**

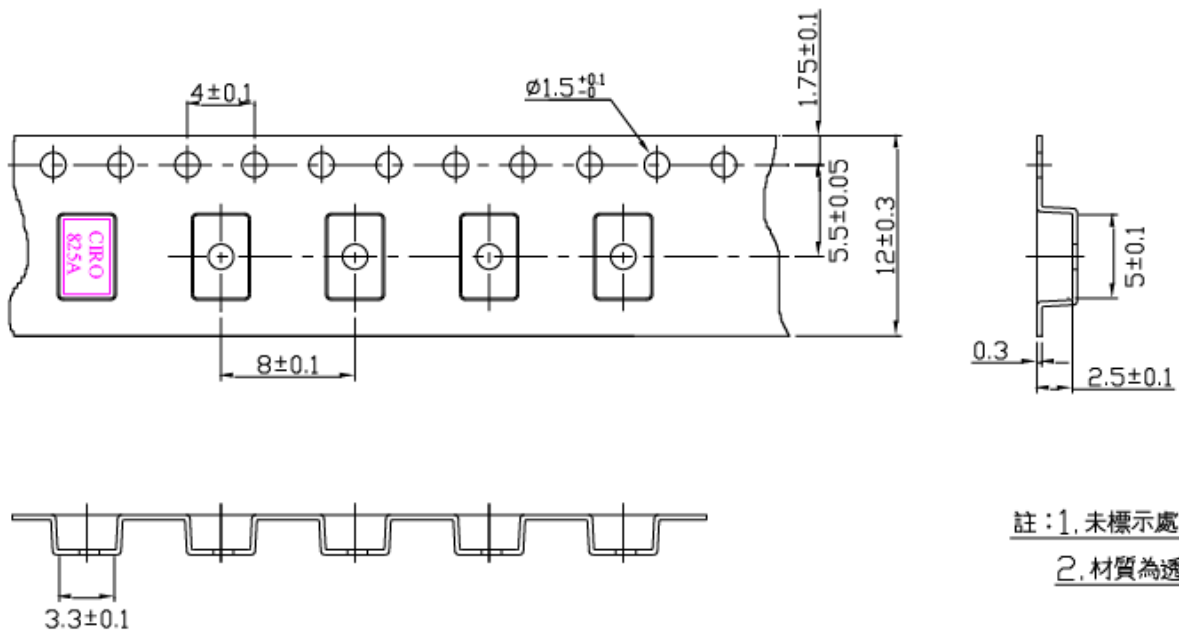


Conductive Material:  
Ground, connected to lower ground diameter of 0.3mm and max.distance of 1mm.

I/O Pads must be connected to lines with 50Ω impedance. in the application a termination of 50Ω must be realized.

## E. PACKING:

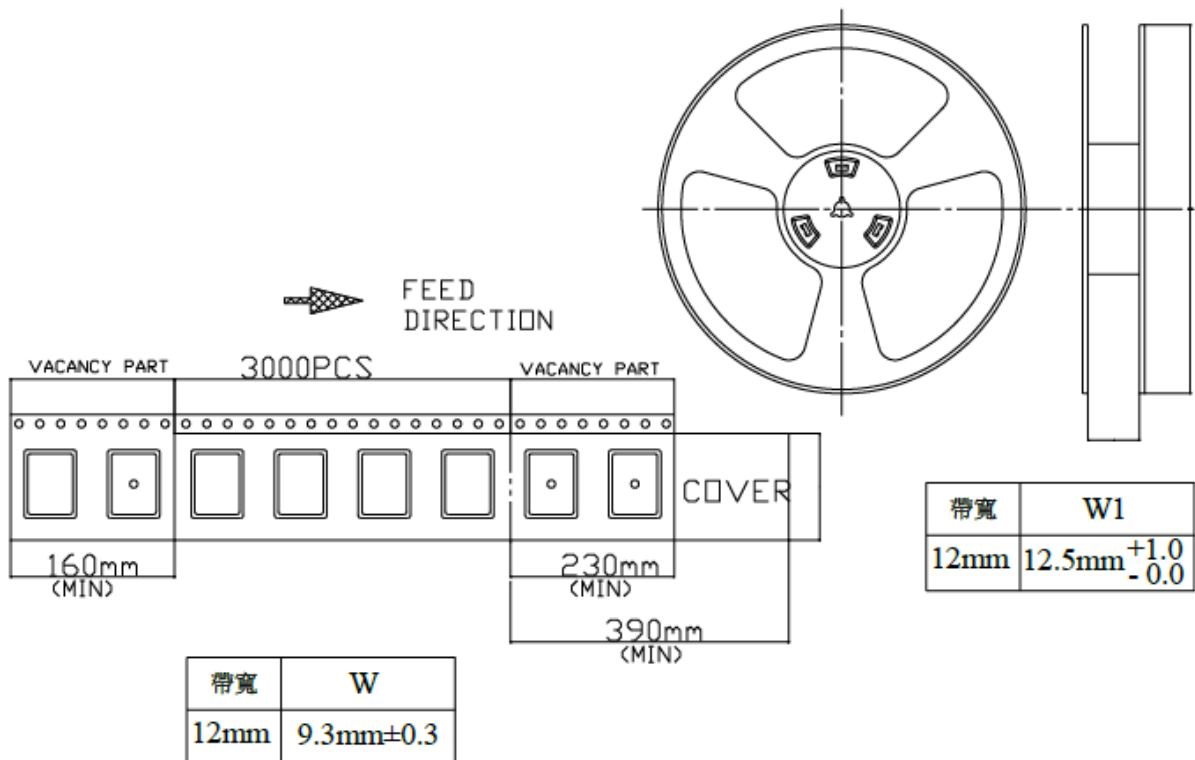
### 1. Carrier tape



註：1. 未標示處  $R=0.3$

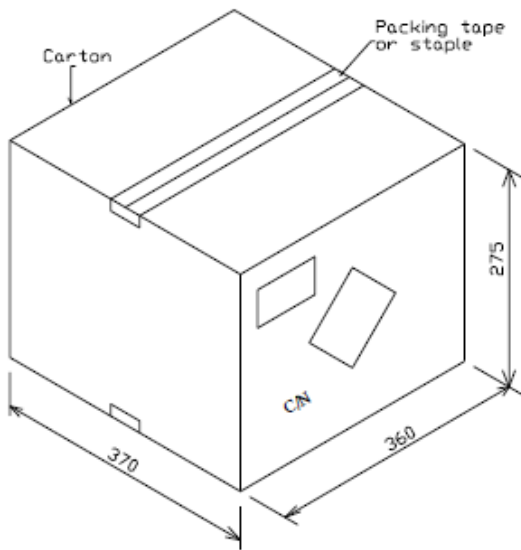
2. 材質為透明

### 2. Reel

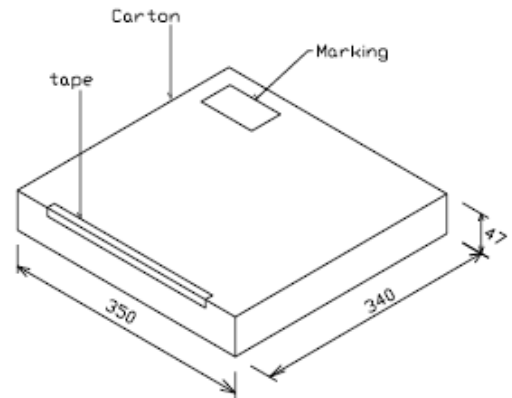


### 3. Package style

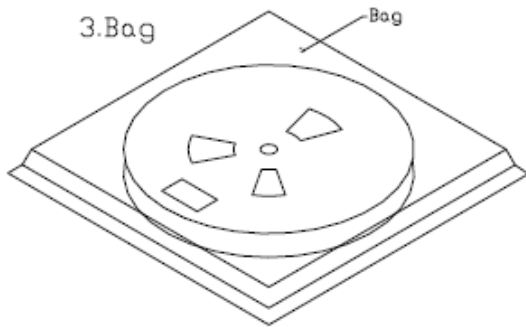
#### 1. Outer Carton



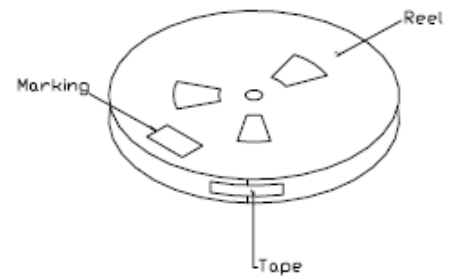
#### 2. Inner Carton



#### 3. Bag



#### 4. Taping



Unit:mm

### F. REFLOW SOLDERING CONDITION:

The recommended reflow soldering condition is shown in following figure. The temperature should be the temperature at the device.

	Profile for eutectic SnPb solder paste	Profile for leadfree solder paste	
Soldering type (measuring point on top surface of the component)	reflow 230 (max. 10 sec.)	reflow 260 (max. 3 sec.)	°C
Composition of solder paste	62Sn/36Pb/2Ag	96.5Sn/3Ag/0.5CuI	

