



# TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

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## Product Specifications Approval Sheet

Product Description: SAW Filter 2595 MHz SMD 1.4X1.1 mm (BW=50 MHz)

TST Part No.: TA1426C

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

Customer signature required

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

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

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

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

Checked by: \_\_\_\_\_ David Chang 

Approved by: \_\_\_\_\_ Bob Chau 

Date: \_\_\_\_\_ 2014/04/15

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 2595MHz

MODEL NO.:TA1426C

REV. NO.:1

### A. MAXIMUM RATING:

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

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

MSL is level 1

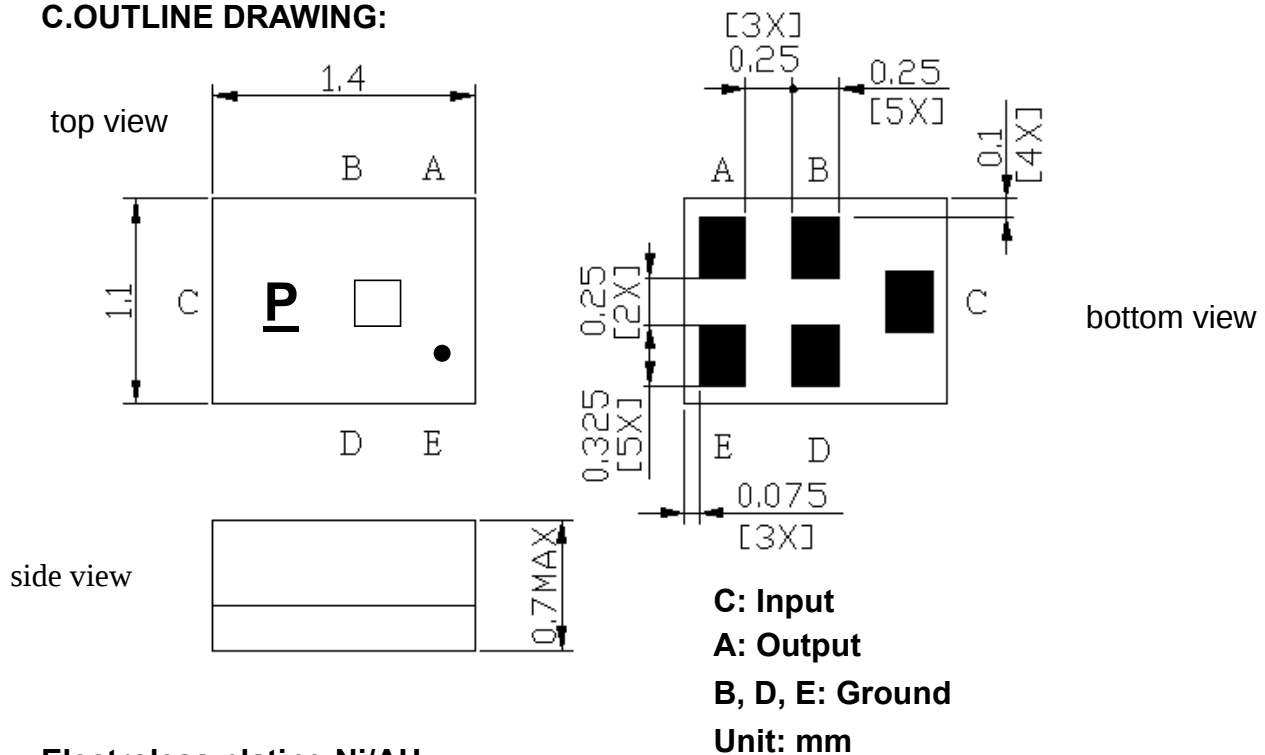
### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 50 \Omega$

| Item                                                 | Unit   | Min. | Typ. | Max. | Note |
|------------------------------------------------------|--------|------|------|------|------|
| <b>Center Frequency</b> <b>F<sub>c</sub></b>         | MHz    | -    | 2595 | -    | -    |
| <b>Max. Insertion Loss</b> (2570~2620 MHz) <b>IL</b> | dB     | -    | 2.1  | 3.8  | -    |
| <b>Amplitude ripple</b> (2570~2620 MHz)              | dB     | -    | 0.9  | 1.8  | -    |
| <b>VSWR</b> (2570~2620 MHz)                          | -      | -    | 1.5  | 2.3  | -    |
| <b>Attenuation</b> (Reference level from 0 dB)       |        |      |      |      |      |
| 0.1~200 MHz                                          | dB     | 40   | 48   | -    | -    |
| 200~2485 MHz                                         | dB     | 30   | 31.5 | -    | -    |
| 2485~2510 MHz                                        | dB     | 20   | 42   | -    | -    |
| 2680~2705 MHz                                        | dB     | 20   | 50   | -    | -    |
| 2705~3000 MHz                                        | dB     | 35   | 36   | -    | -    |
| 3000~4000 MHz                                        | dB     | 20   | 37   | -    | -    |
| 4000~4900 MHz                                        | dB     | 20   | 49   | -    | -    |
| 4900~6000 MHz                                        | dB     | 25   | 40   | -    | -    |
| <b>Temperature Coefficient of Frequency</b>          | ppm/°C | -    | -36  | -    | -    |

### C.OUTLINE DRAWING:



**Electroless plating Ni/AU:**

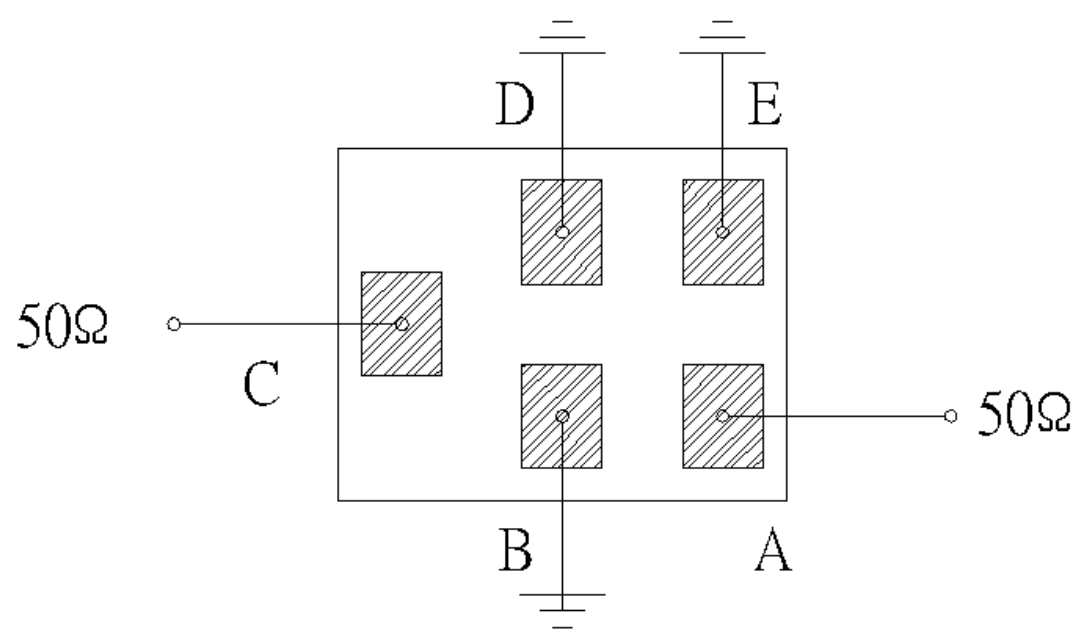
**Ni thickness: 2~5μm**

**Au thickness: 0.3μm Min**

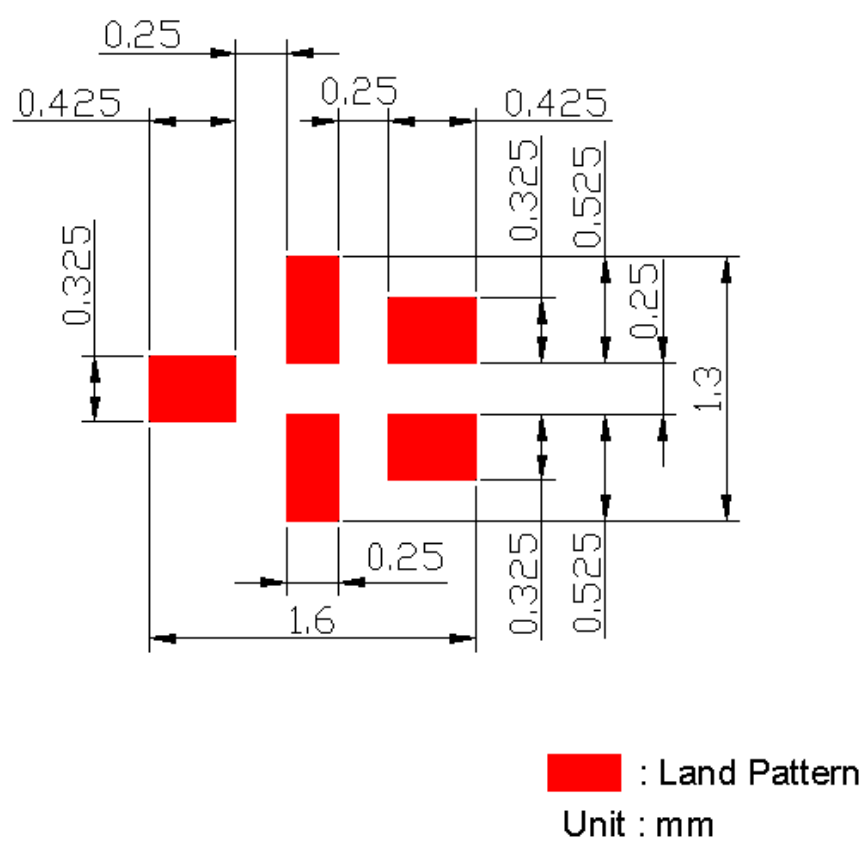
☐ : Year/Month Code (Follow the table)

| YEAR/Month | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2013       | A        | B        | C        | D        | E        | F        | G        | H        | J        | K        | L        | M        |
| 2014       | N        | P        | Q        | R        | S        | T        | U        | V        | W        | X        | Y        | Z        |
| 2015       | a        | b        | c        | d        | e        | f        | g        | h        | j        | k        | l        | m        |
| 2016       | n        | p        | q        | r        | s        | t        | u        | v        | w        | x        | y        | z        |
| 2017       | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> | <u>G</u> | <u>H</u> | <u>J</u> | <u>K</u> | <u>L</u> | <u>M</u> |
| 2018       | <u>N</u> | <u>P</u> | <u>Q</u> | <u>R</u> | <u>S</u> | <u>T</u> | <u>U</u> | <u>V</u> | <u>W</u> | <u>X</u> | <u>Y</u> | <u>Z</u> |
| 2019       | <u>a</u> | <u>b</u> | <u>c</u> | <u>d</u> | <u>e</u> | <u>f</u> | <u>g</u> | <u>h</u> | <u>j</u> | <u>k</u> | <u>l</u> | <u>m</u> |
| 2020       | <u>n</u> | <u>p</u> | <u>q</u> | <u>r</u> | <u>s</u> | <u>t</u> | <u>u</u> | <u>v</u> | <u>w</u> | <u>x</u> | <u>y</u> | <u>z</u> |

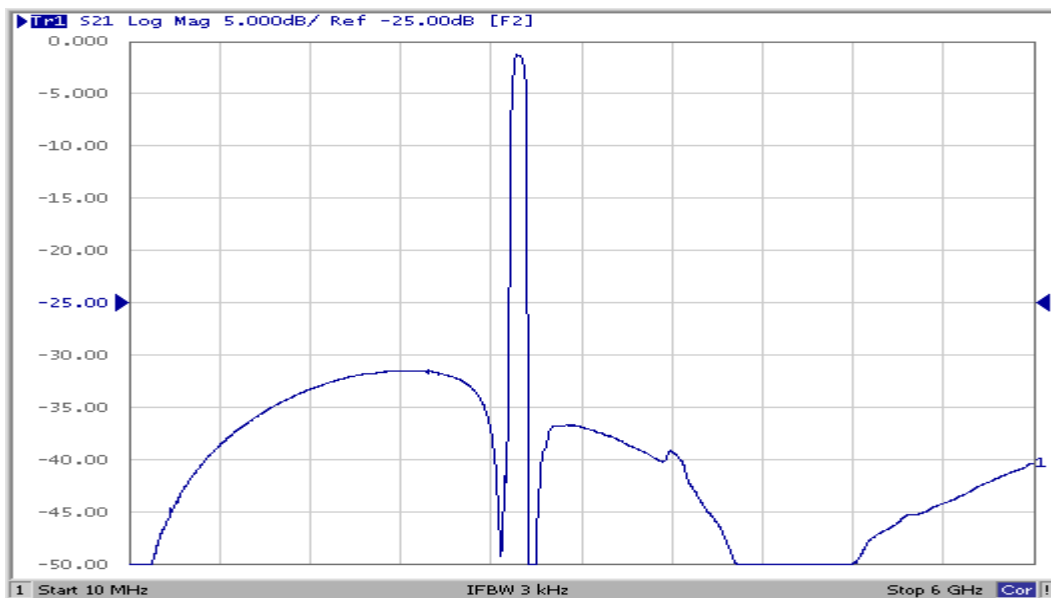
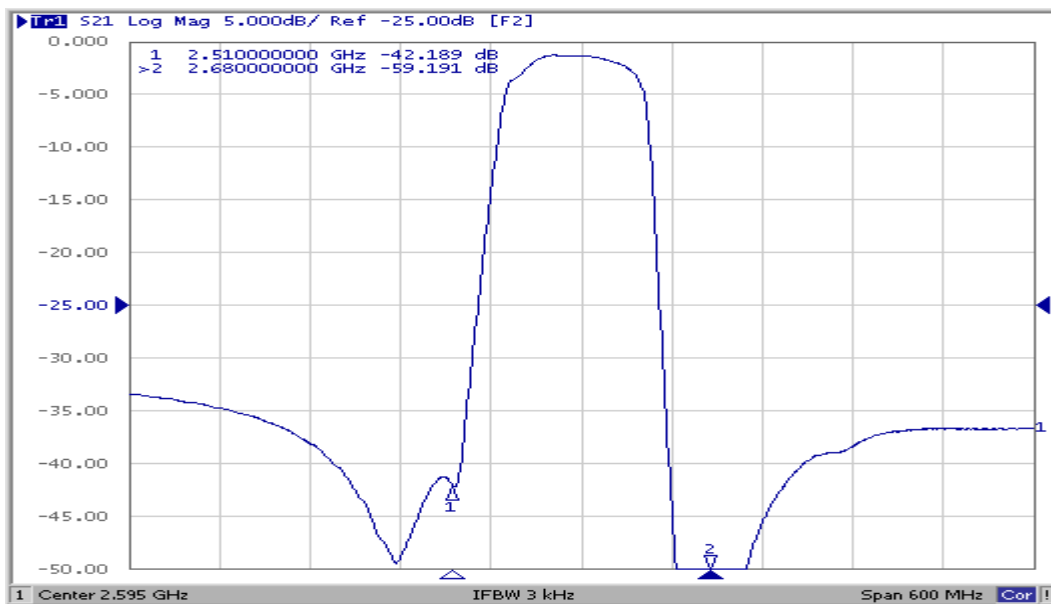
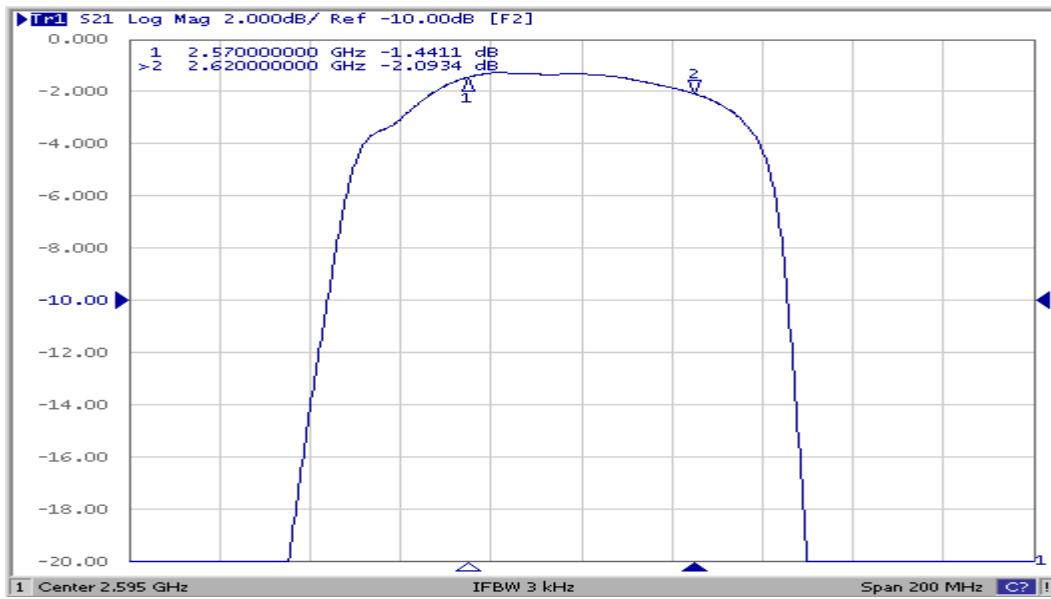
**D. MEASUREMENT CIRCUIT:**



**E. PCB Footprint:**

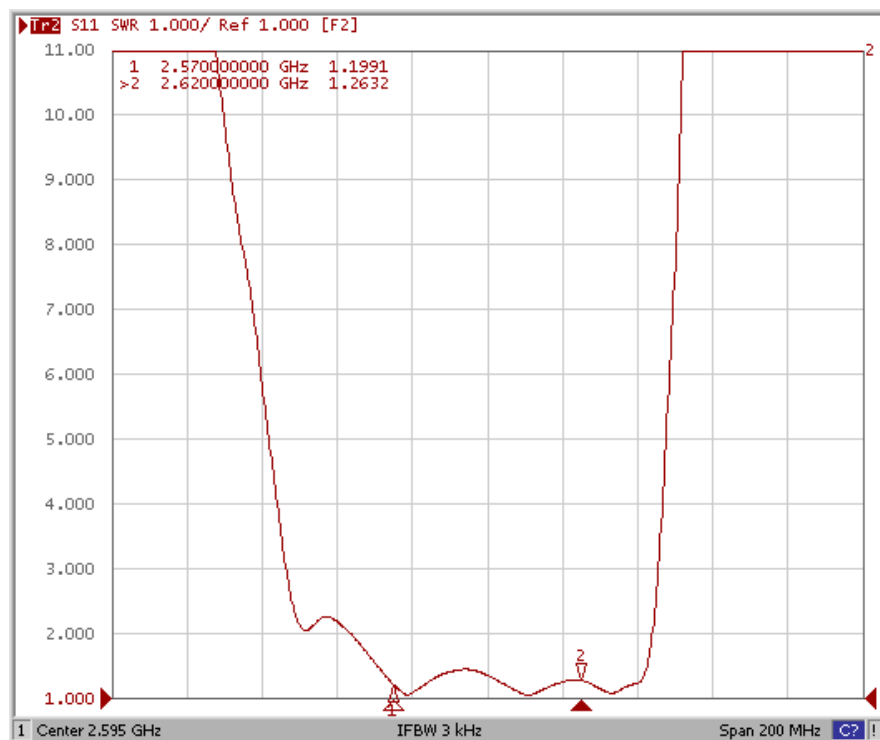


## F. Frequency Characteristics:

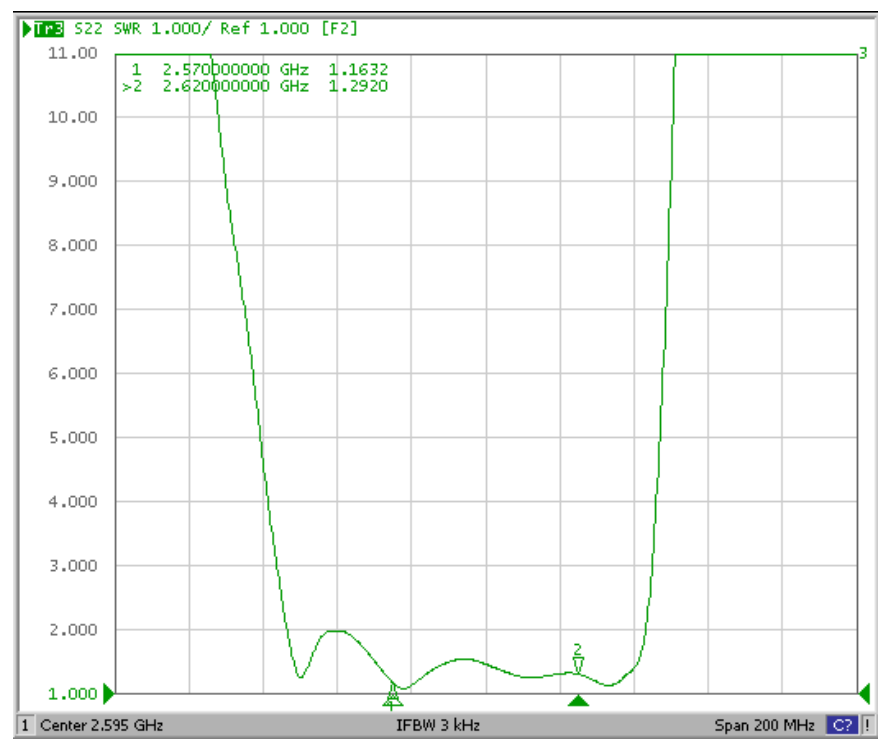


Reflection Functions:

S11



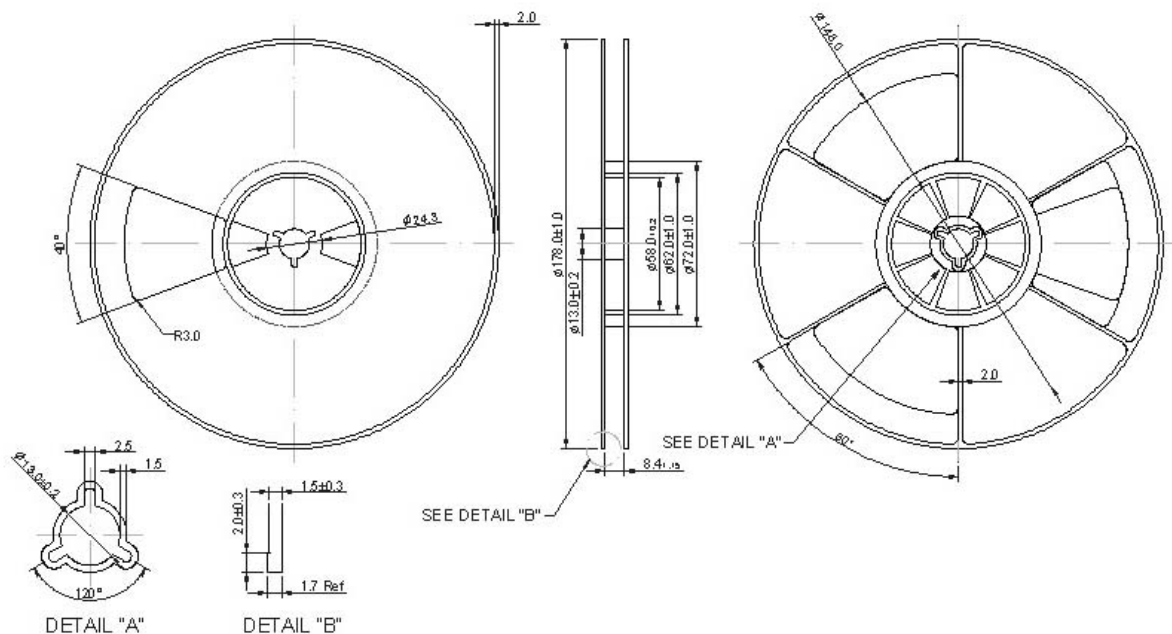
S22



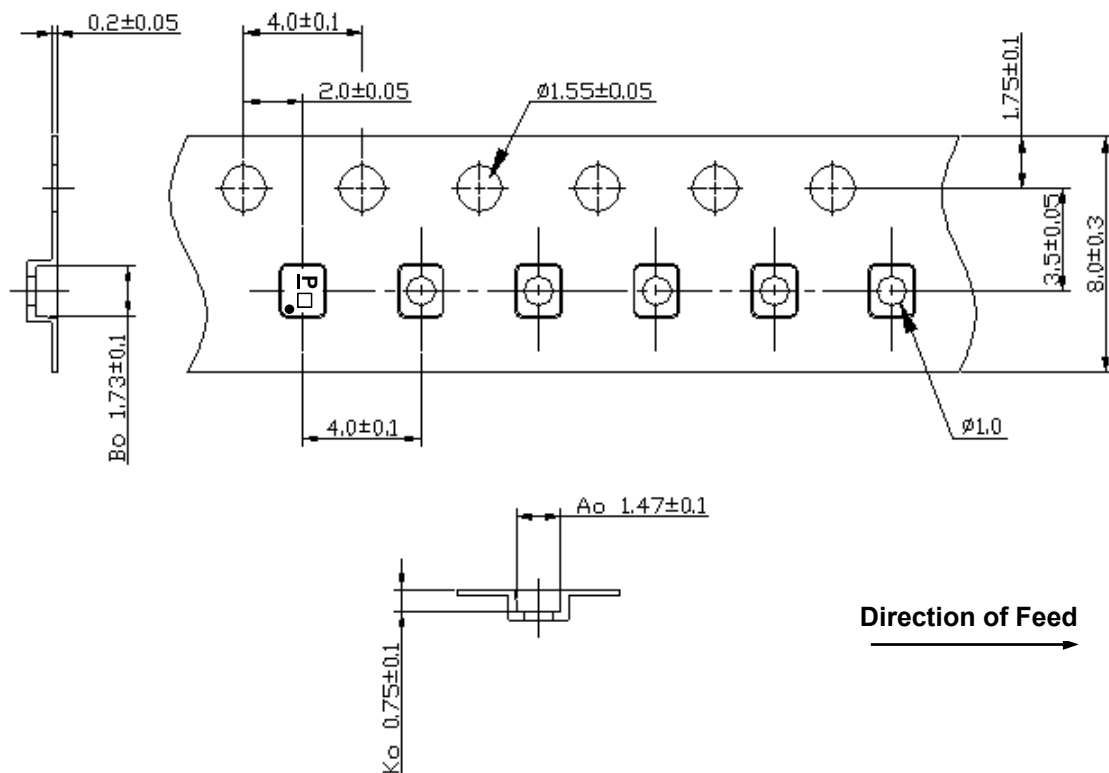
## G. PACKING:

### 1. REEL DIMENSION

(Reel Count : 7"=3000 )

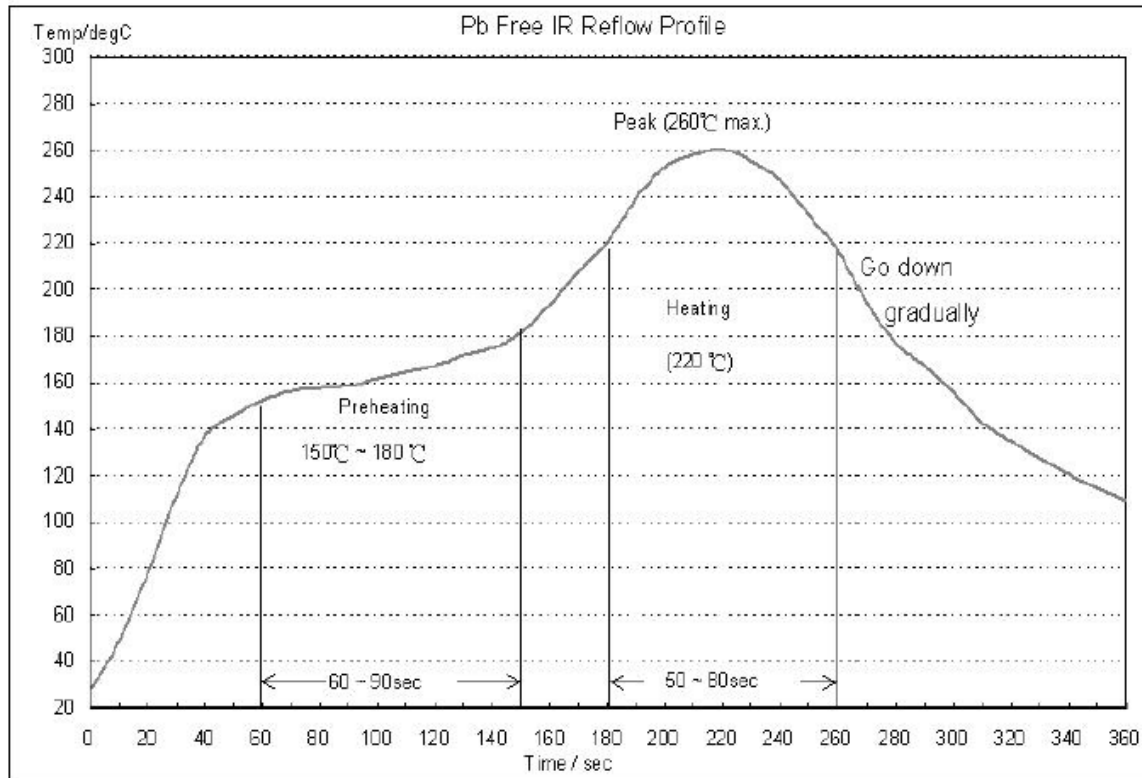


### 2. TAPE DIMENSION



## H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time: 2 times.



## I. STORAGE CONDITIONS:

- 1) Store in manufacturer's package or tightly reclosed box with the following conditions.  
[Temperature: -10...+40°C, Humidity: 30...85%RH] Examine solderability before using this component, since more than 6 months storage might be a cause of degradation of solderability. Notice that long-term storage might be a cause of the discoloration.
- 2) To keep solderability of outer-electrode, do not store in the following environments.
  - Ambient air containing corrosive gas (C12, H2S, NH3, SOX, NOX, etc.)
  - Ambient air containing volatile or combustible gas
  - In dusty place
  - In the places where the water splashes and it tends to condense for high humid
  - In direct sunlight
  - In the places under the strong influence of static electricity or electric field strengthContact the manufacturer before using the component in any of the above environments.
- 3) Do not open minimum packing unit until usage.