



# 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 2017.5 MHz SMD 2.0X1.4 mm

TST Part No.: TA1129A

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

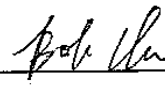
Customer signature required

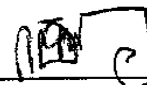
Company: \_\_\_\_\_

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

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

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

Checked by: \_\_\_\_\_ Bob Chau 

Approved by: \_\_\_\_\_ Francis Chen 

Date: \_\_\_\_\_ 10, 29, 2009

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 2017.5MHz

MODEL NO.:TA1129A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +95°C

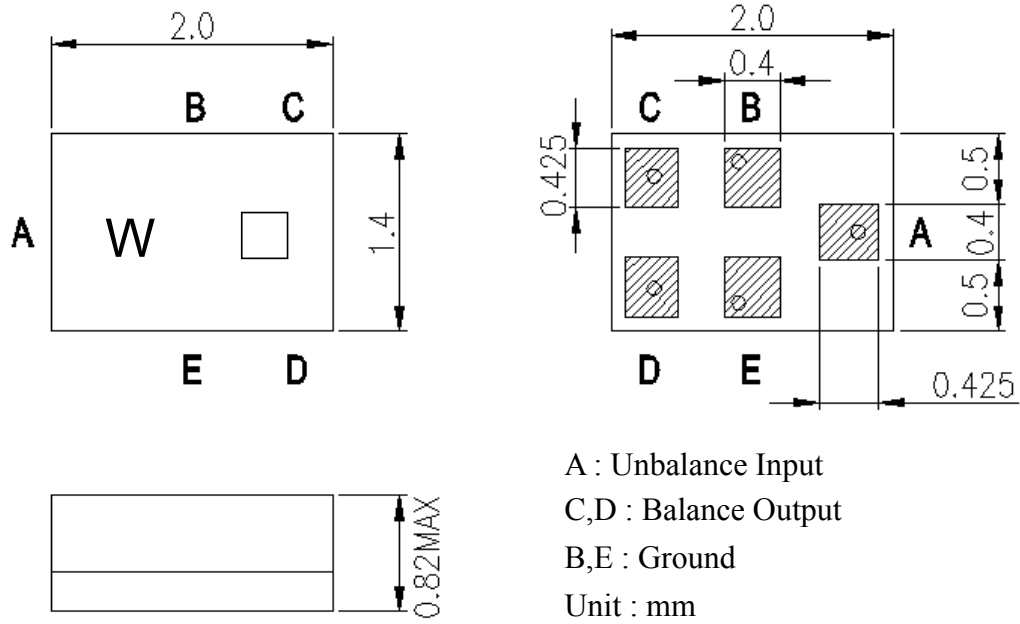
### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single-ended) :  $Z_s = 50 \Omega$

Terminating load impedance (differential) :  $Z_L = 200 \Omega // 15nH$

| Item                                                                                         | Unit      | Min. | Type. | Max.   | Note |
|----------------------------------------------------------------------------------------------|-----------|------|-------|--------|------|
| <b>Center Frequency</b>                                                                      | <b>Fc</b> | MHz  | -     | 2017.5 | -    |
| <b>Insertion Loss</b> (2010~2025 MHz)                                                        | <b>IL</b> | dB   | -     | 2      | 2.7  |
| <b>Amplitude ripple</b> (2010~2025 MHz)                                                      | dB        | -    | 0.4   | 1.4    | -    |
| <b>Group Delay ripple</b> (2010~2025 MHz)                                                    | ns        | -    | 3     | 12     | -    |
| <b>Output amplitude balance</b> ( $ S_{31}/S_{21} $ )<br>(2010~2025 MHz)                     | dB        | -4   | -1.6  | 4      | -    |
| <b>Output phase balance</b> ( $\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$ )<br>(2010~2025 MHz) | deg       | -12  | -5    | 12     | -    |
| <b>VSWR</b> (2010~2025 MHz)                                                                  |           | -    | 2.1   | 2.5    | -    |
| <b>Attenuation</b>                                                                           |           |      |       |        |      |
| 100~995 MHz                                                                                  | dB        | 32   | 56    | -      | -    |
| 995~1022 MHz                                                                                 | dB        | 35   | 55    | -      | -    |
| 1022~1925 MHz                                                                                | dB        | 25   | 36    | -      | -    |
| 1925~1950 MHz                                                                                | dB        | 22   | 35    | -      | -    |
| 2085~2110 MHz                                                                                | dB        | 15   | 28    | -      | -    |
| 2430~2565 MHz                                                                                | dB        | 35   | 60    | -      | -    |
| 2565~4010 MHz                                                                                | dB        | 32   | 42    | -      | -    |
| 4010~4060 MHz                                                                                | dB        | 40   | 55    | -      | -    |
| 4060~6000 MHz                                                                                | dB        | 32   | 45    | -      | -    |

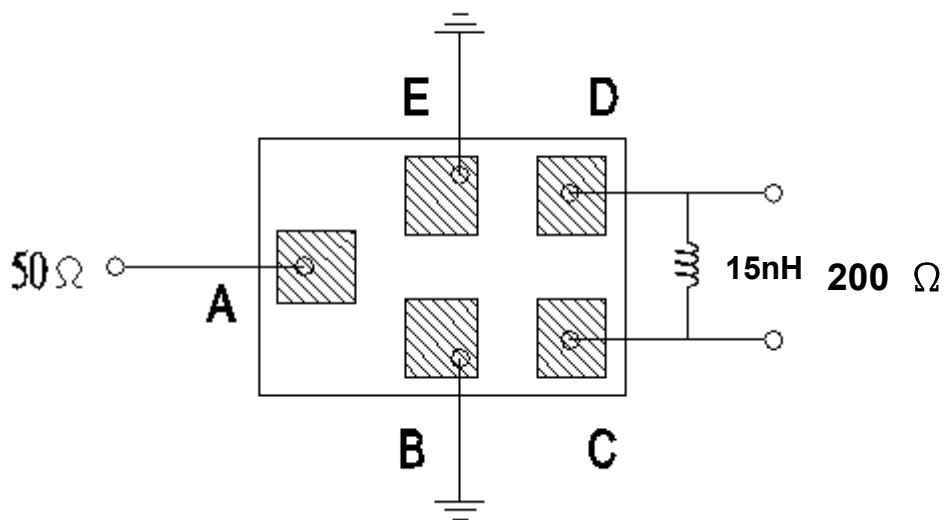
### C.OUTLINE DRAWING:



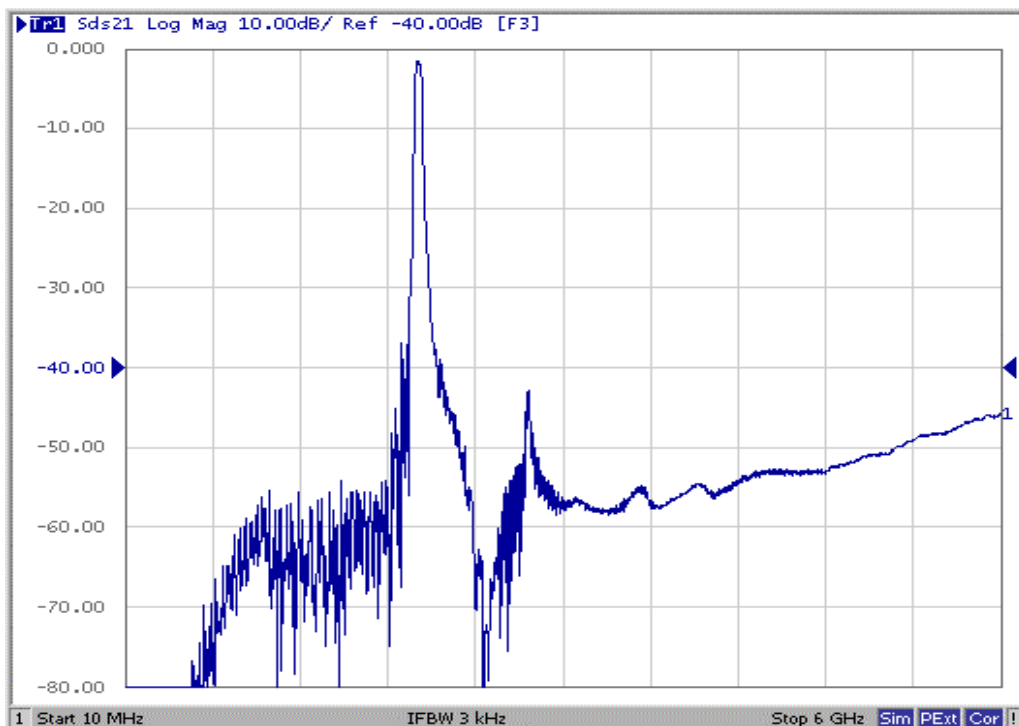
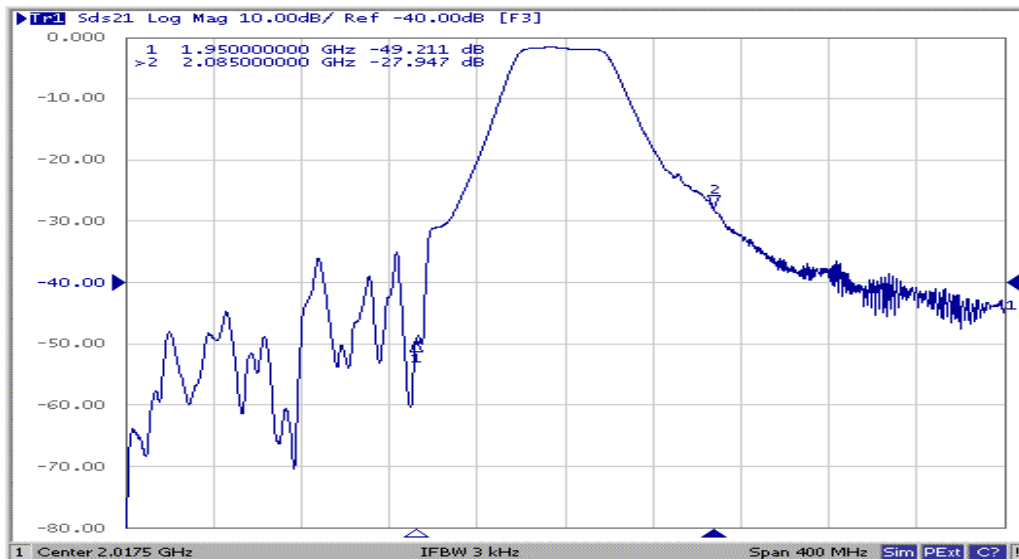
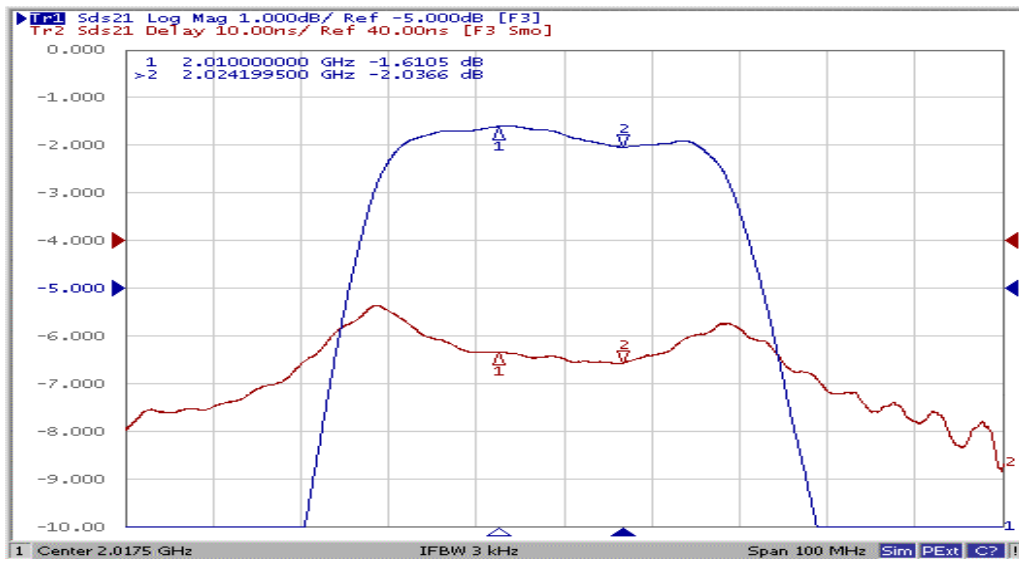
□ : Year/Month Code (Follow the table)

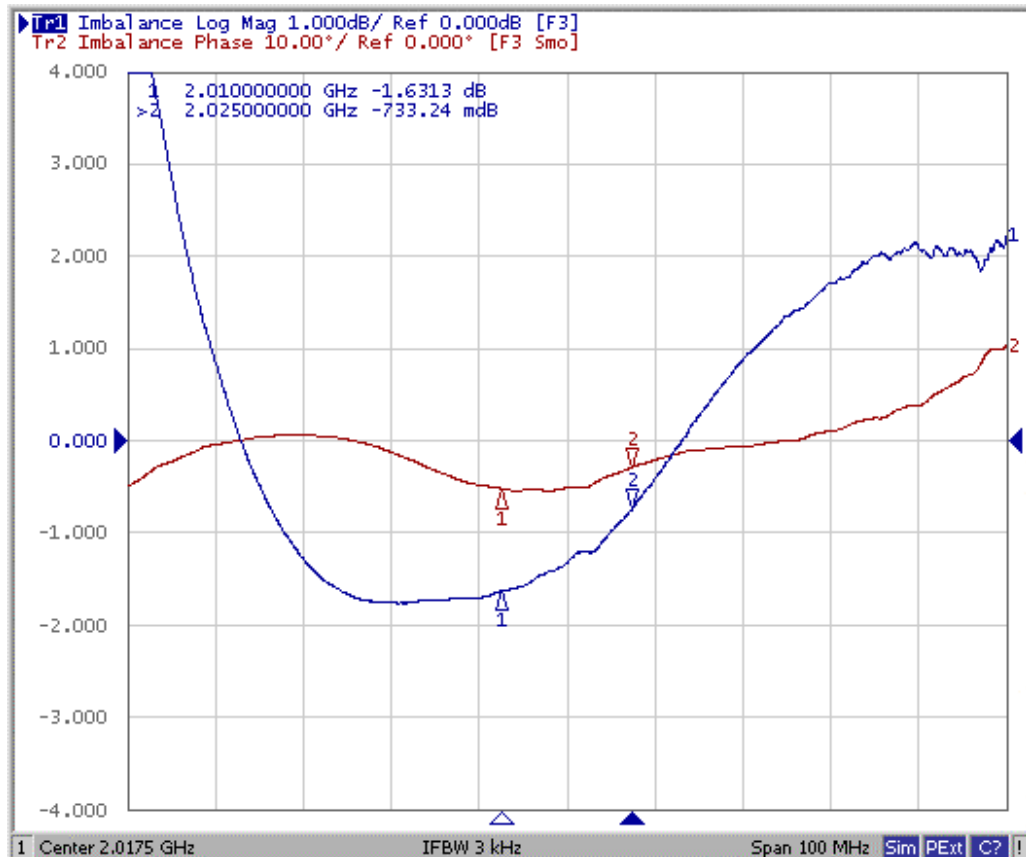
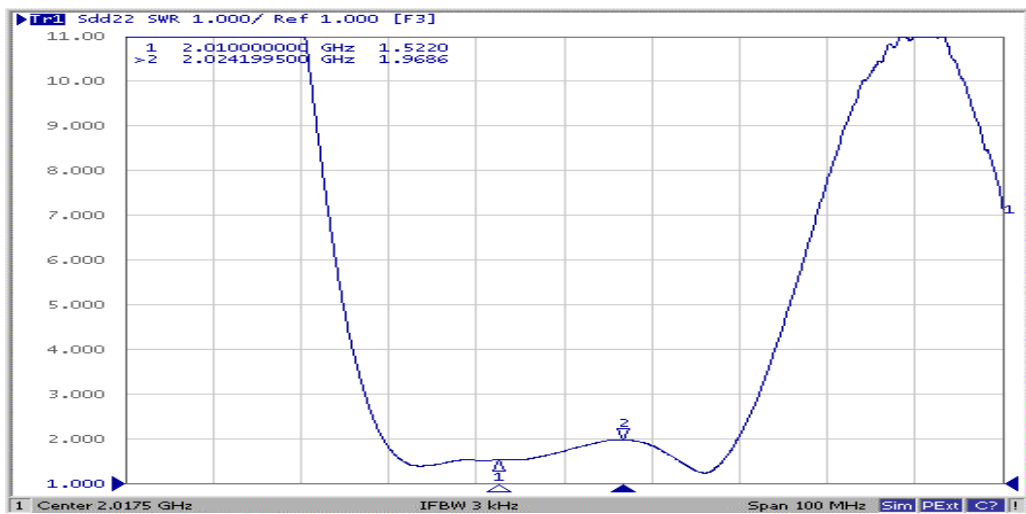
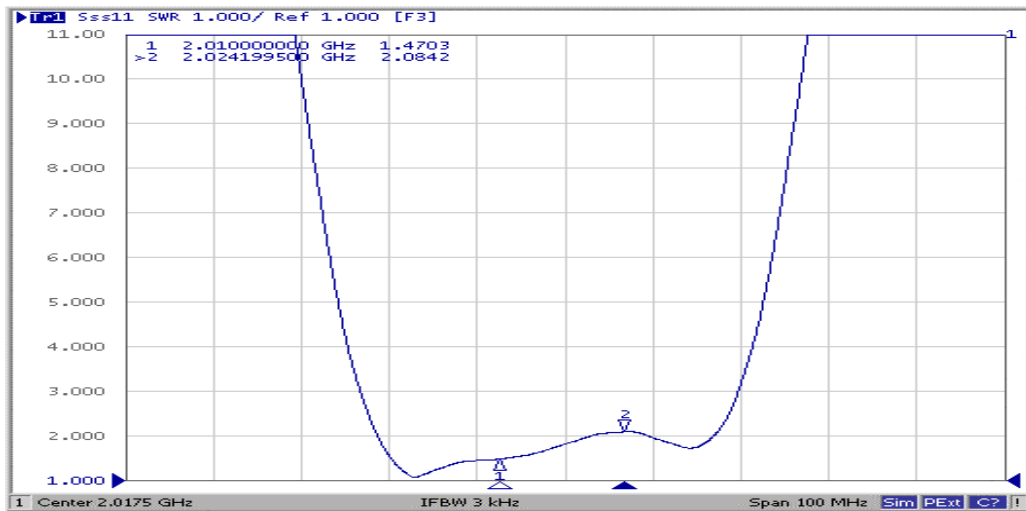
| Year/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|
| 2005       | A | B | C | D | E | F | G | H | J | K  | L  | M  |
| 2006       | N | P | Q | R | S | T | U | V | W | X  | Y  | Z  |
| 2007       | a | b | c | d | e | f | g | h | j | k  | l  | m  |
| 2008       | n | p | q | r | s | t | u | v | w | x  | y  | z  |
| 2009       | A | B | C | D | E | F | G | H | J | K  | L  | M  |
| 2010       | N | P | Q | R | S | T | U | V | W | X  | Y  | Z  |

### D. MEASUREMENT CIRCUIT:



## E. Frequency Characteristics :

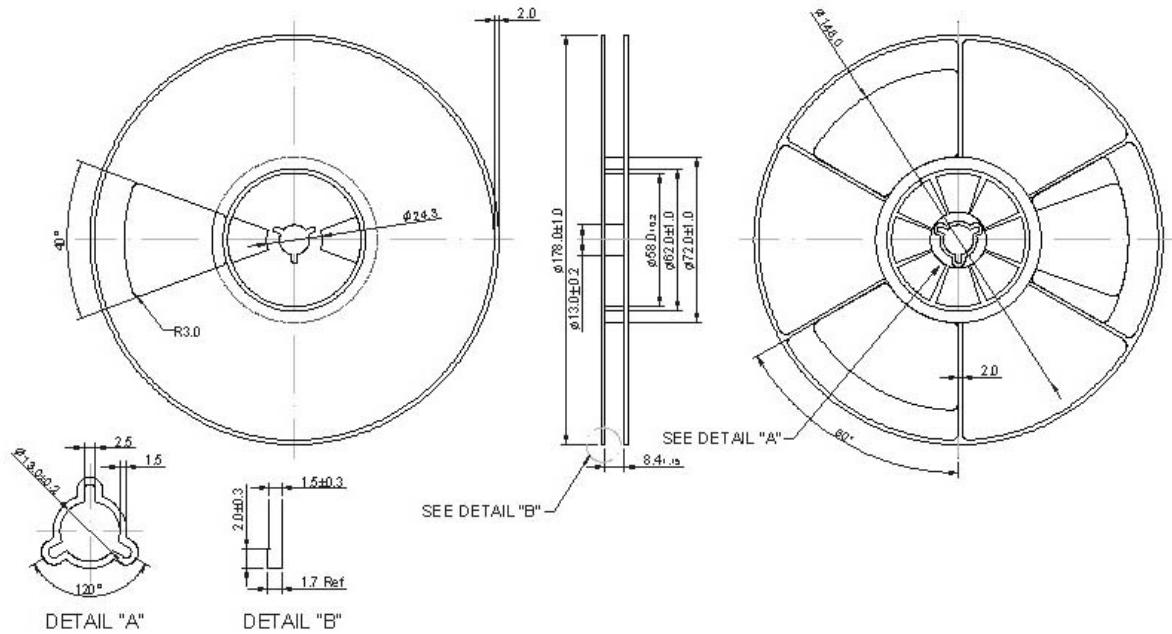




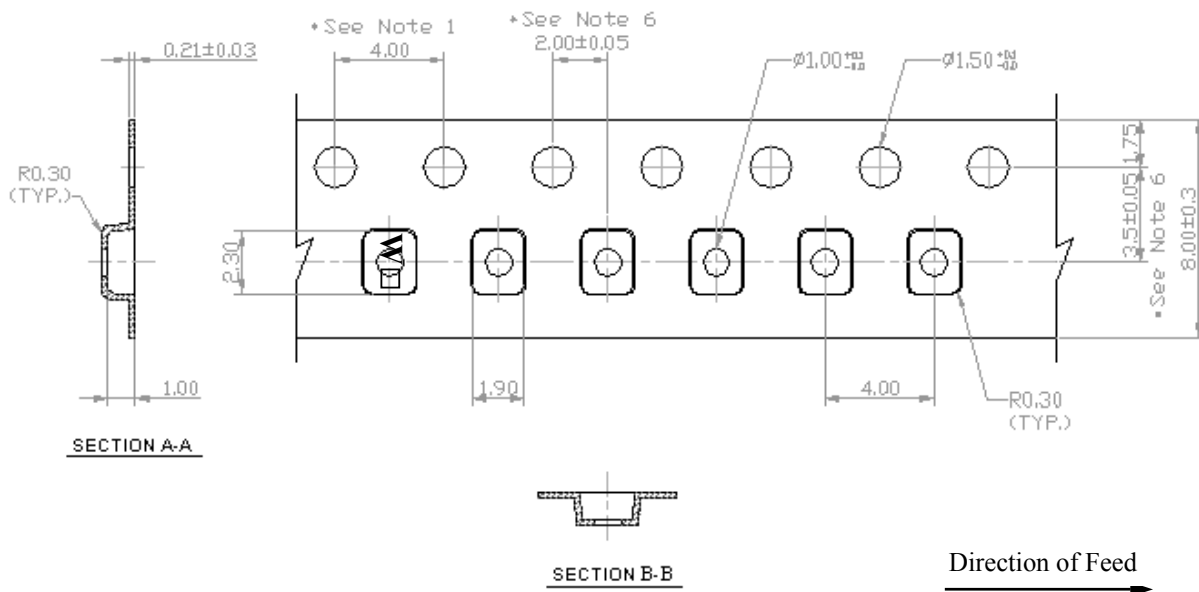
## F. PACKING:

### 1. REEL DIMENSION

(Reel Count : 7''=2000 ; 13''=10000 )



### 2. TAPE DIMENSION



**G. RECOMMENDED REFLOW PROFILE :**

