**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
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

# Product Specifications Approval Sheet

Product Description : SAW Filter 915MHz 26MHz BW SMD 1.4x1.1 mm

TST Part No.: TA1610A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Yu

Approved by: Bob Chau

Date: 2014/02/18

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 915MHz 26MHz BW SMD 1.4x1.1 mm

MODEL NO.:TA1610A REV 1.0

## 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
Lead-free soldering

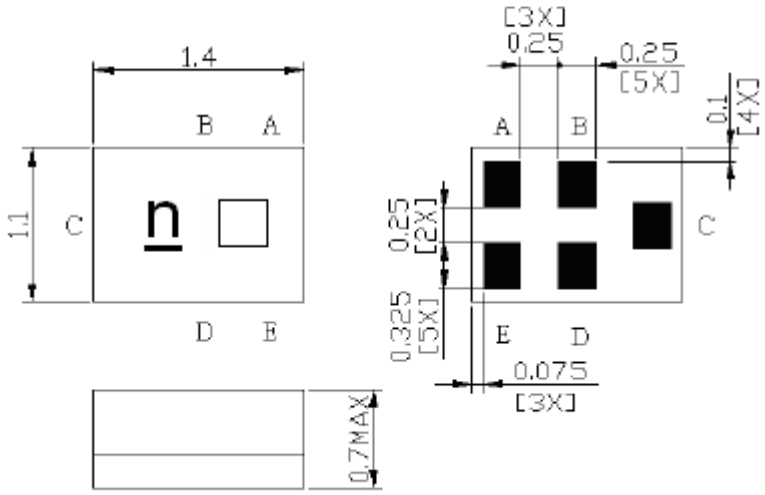
**E**lectrostatic **S**ensitive **D**evice (**ESD**)

## B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Type. | Max. | Note |
|---|---|---|---|---|---|
| **Center Frequency** **Fc** | MHz | - | 915 | - | - |
| **Insertion Loss** (902~928 MHz) **IL** | dB | - | 2.3 | 3.2 | - |
| **VSWR** (902~928 MHz) | dB | - | 1.7 | 2.4 | - |
| **Amplitude ripple**(902~928 MHz) | dB | - | 0.6 | 1.8 | - |
| **Attenuation** | | | | | |
| 10 ~ 700 MHz | dB | 55 | 75 | - | - |
| 700 ~ 770 MHz | dB | 50 | 65 | - | - |
| 770 ~ 850 MHz | dB | 45 | 66 | - | - |
| 850 ~ 880 MHz | dB | 26 | 35 | - | |
| 880 ~ 894 MHz | dB | - | 3 | - | - |
| 990 ~ 1020 MHz | dB | 38 | 43 | - | - |
| 1020 ~ 1850 MHz | dB | 45 | 65 | - | - |
| 1850 ~ 3000 MHz | dB | 30 | 52 | - | - |
| Package size | mm | SMD 1.4x1.1 | | | - |

## C.OUTLINE DRAWING:

| Connection | Terminals |
|---|---|
| Input | C |
| Output | A, E |
| Ground | B, D |



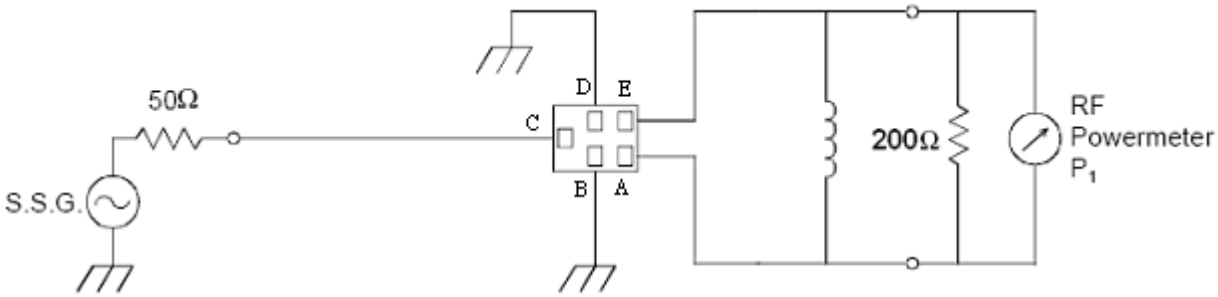

Marking name: n

☐ Date code: Please refer to our date code blank as below.

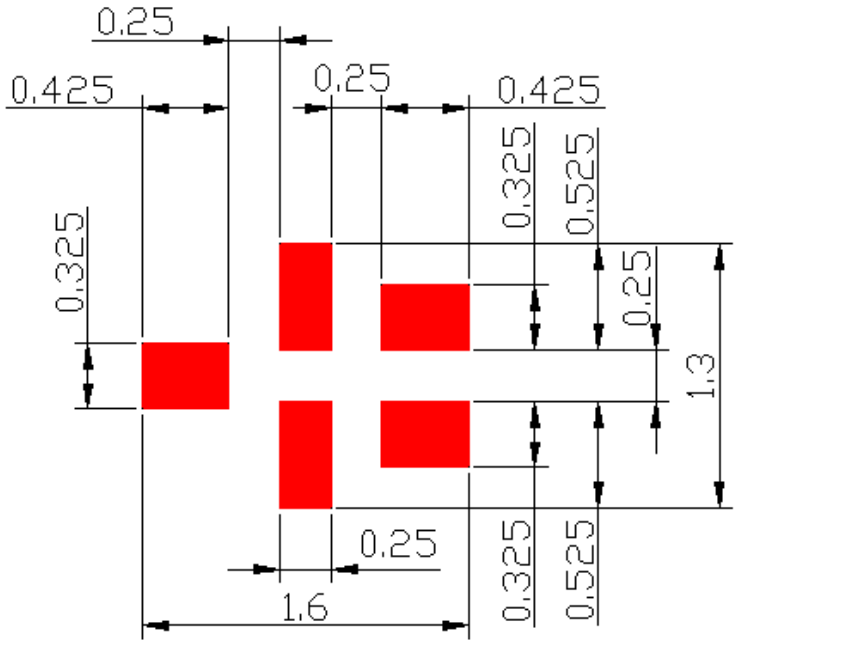
Date code Option

| YEAR/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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** |
| **2011** | **a** | **b** | **c** | **d** | **e** | **f** | **g** | **h** | **j** | **k** | **l** | **m** |
| **2012** | **n** | **p** | **q** | **r** | **s** | **t** | **u** | **v** | **w** | **x** | **y** | **z** |
| **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** |

## D. MEASUREMENT CIRCUIT:




## E. PCB Footprint:

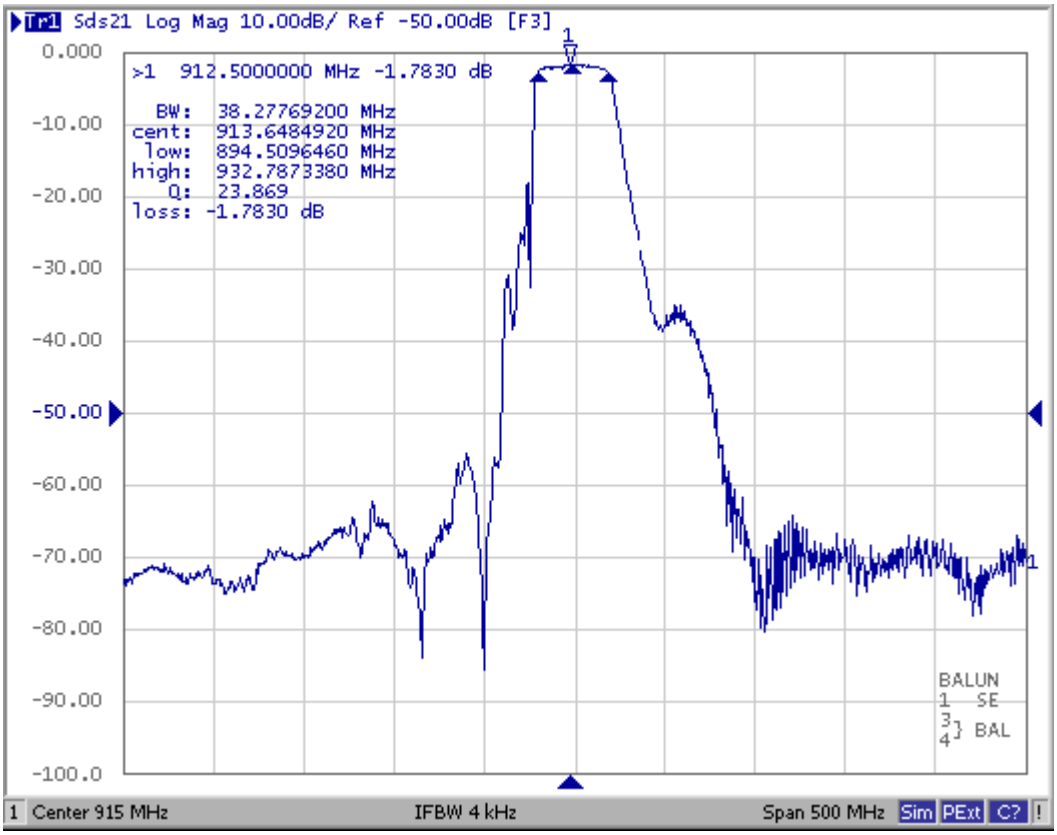



: Land Pattern

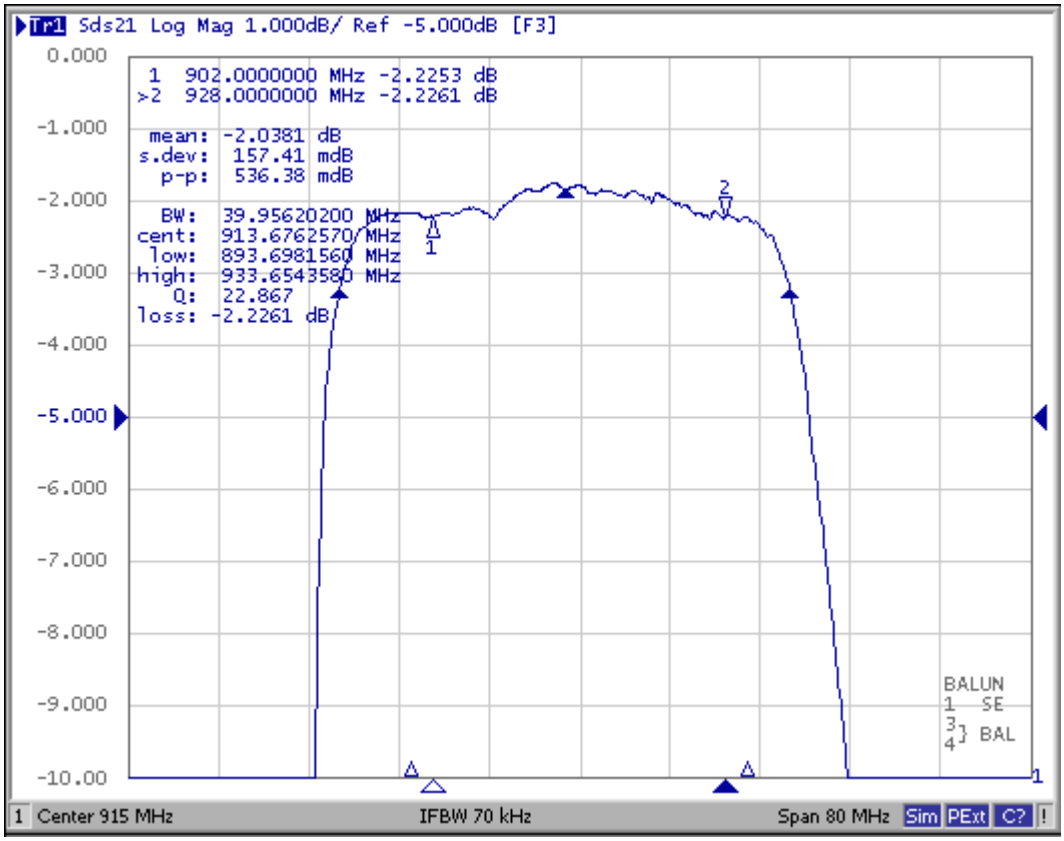
Unit : mm

## F. Frequency Characteristics :

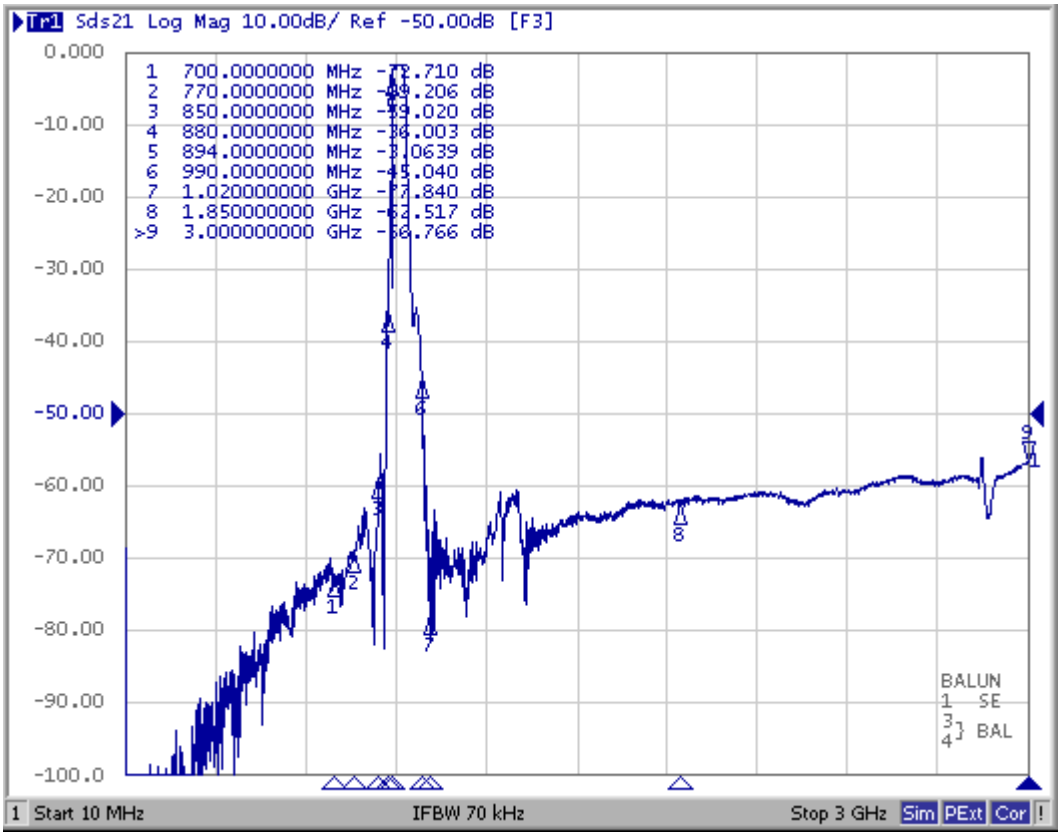
### 1. S21 Response (span 500MHz):



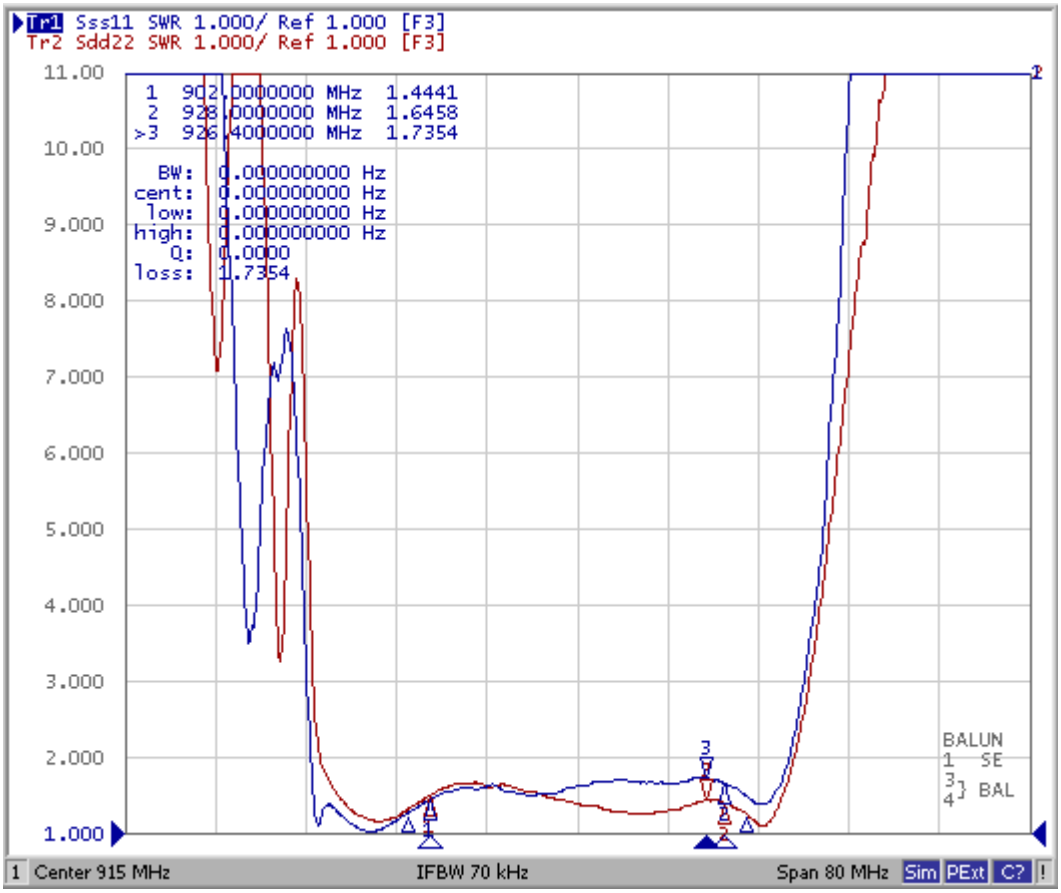

### 2. S21 Response (span 80MHz):



## 3. S21 Response (span 3.0GHz):



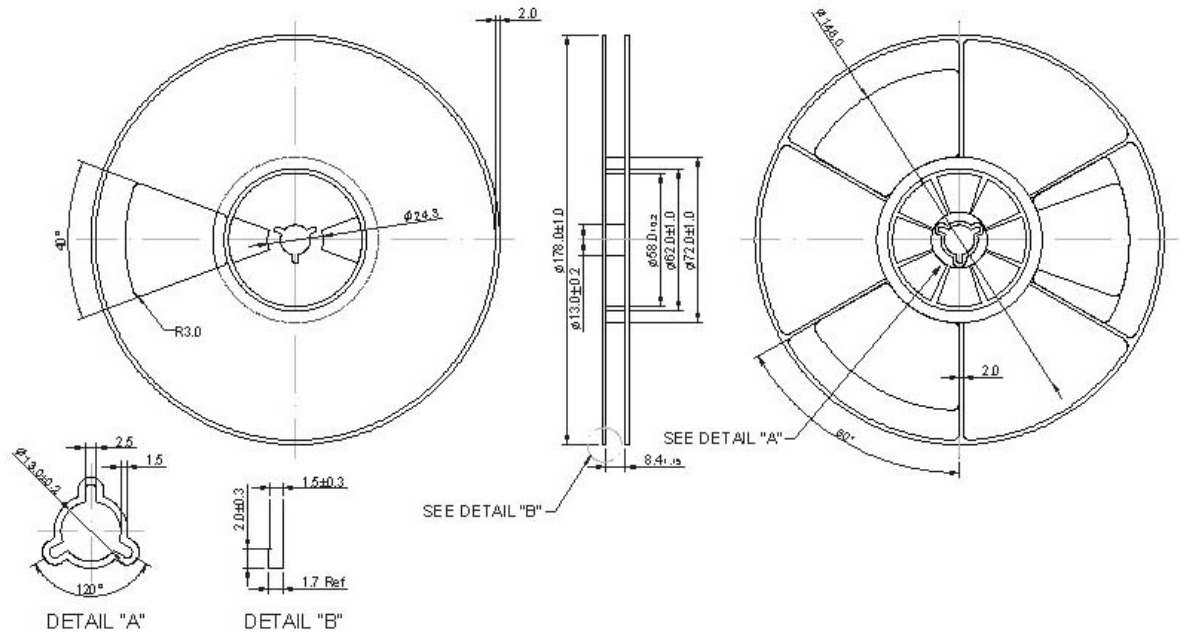

## 4. S11&S22 VSWR (span 80MHz):



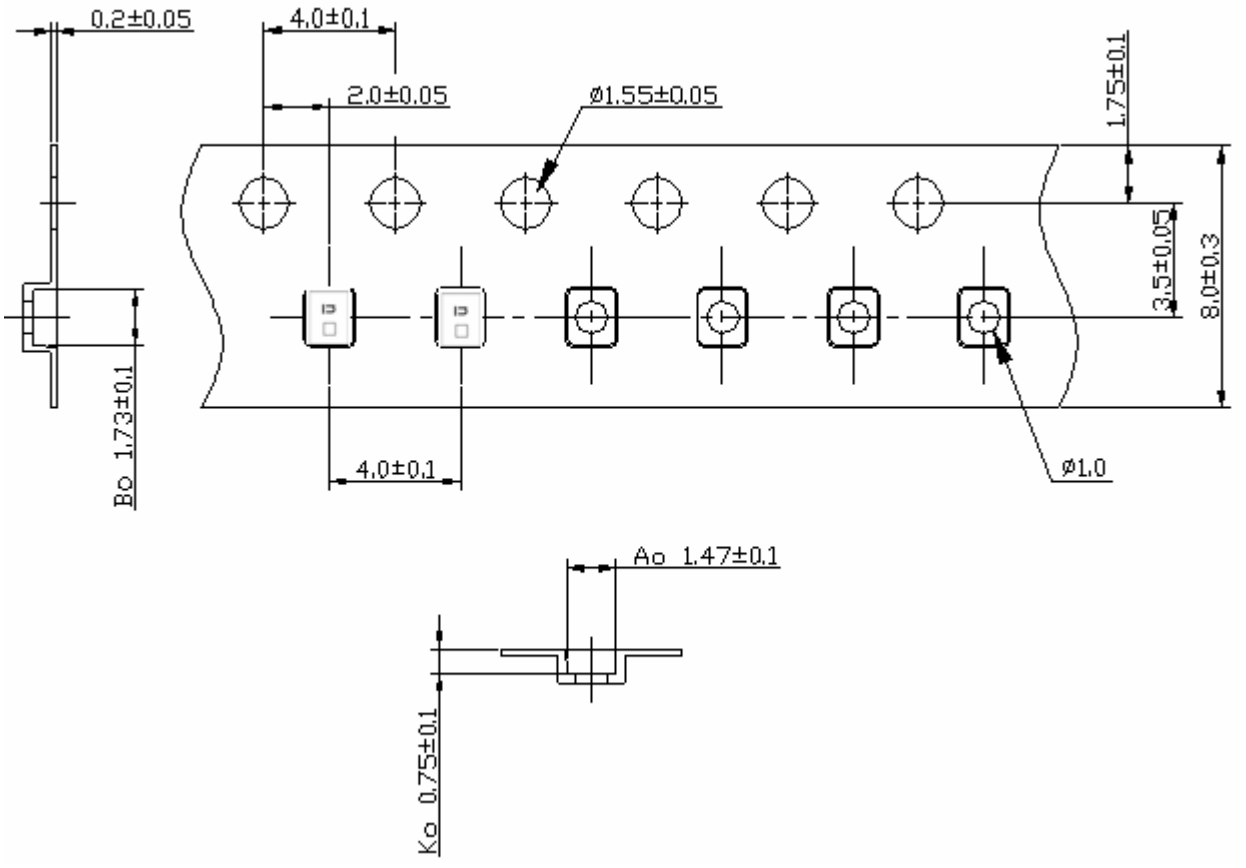
## G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)




2.TAPE DIMENSION




Direction of Feed

## H. RECOMMENDED REFLOW PROFILE :

