



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: SAW Filter 1568MHz SMD 3.0 x 3.0mm(BW=18.322MHz)

TST Parts No.: :TA1584A

Customer Parts No.: _____

| |
|---------------------|
| Company: _____ |
| Division: _____ |
| Approved by : _____ |
| Date: _____ |

Checked by: _____ Andy Yu 

Approval by: _____ Bob Chau 

Date: _____ 2015/6/17

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 1568MHz SMD 3.0 x 3.0mm(BW=18.322MHz)

MODEL NO.: TA1584A

REV. NO : 3.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +105°C
5. MSL 1

RoHS Compliant
Lead free
Lead-free soldering

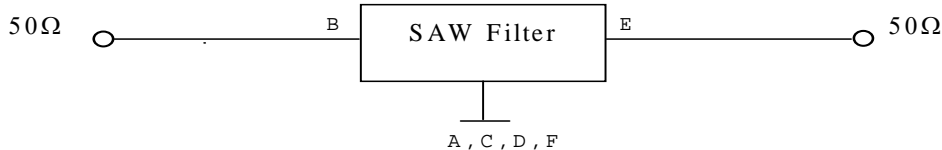
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

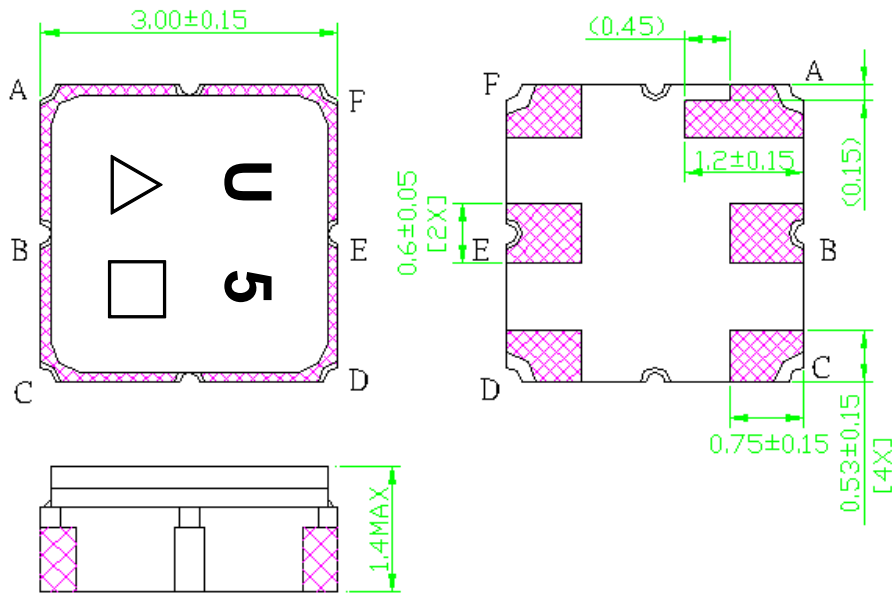
| Item | | Min. | Typ. | Max. | |
|--|----------------|------|------|------|-----|
| Center frequency | Fc | | | | |
| | | dB | - | 1568 | - |
| Insertion loss within 1559.098 ~1563.098 MHz | IL | dB | - | 1.1 | 2.0 |
| Insertion loss within 1573.420 ~1577.420 MHz | IL | dB | - | 1.3 | 2.2 |
| Amplitude ripple (p-p) within 1559.098 ~ 1577.420 MHz | | dB | - | 0.3 | 1.2 |
| Group delay ripple within 1559.098 ~ 1577.420 MHz | | ns | | 4 | 40 |
| Attenuation (Reference level from 0 dB) | | | | | |
| 10.000 ~ 820.00 | MHz | dB | 27 | 35 | - |
| 820.00 ~ 1521.0 | MHz | dB | 30 | 35 | - |
| 1616.0 ~ 1624.0 | MHz | dB | 45 | 59 | - |
| 1624.0 ~ 3000.0 | MHz | dB | 30 | 38 | - |
| VSWR within 1559.098 ~1577.420 | MHz | | - | 1.45 | 2.0 |
| Source impedance | Z _s | Ω | - | 50 | - |
| Load impedance | Z _L | Ω | - | 50 | - |

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING :



B : Input

E : Output

A、C、D、F : Ground

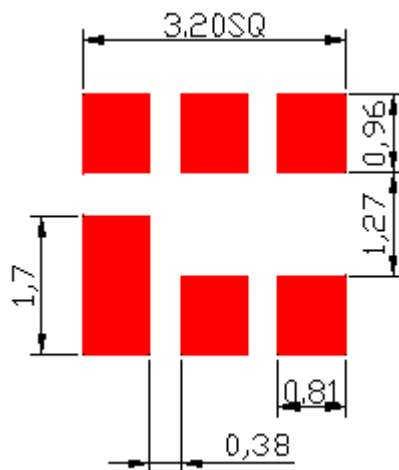
Unit : mm

△ : Year Code(2012→2,...2019→9)

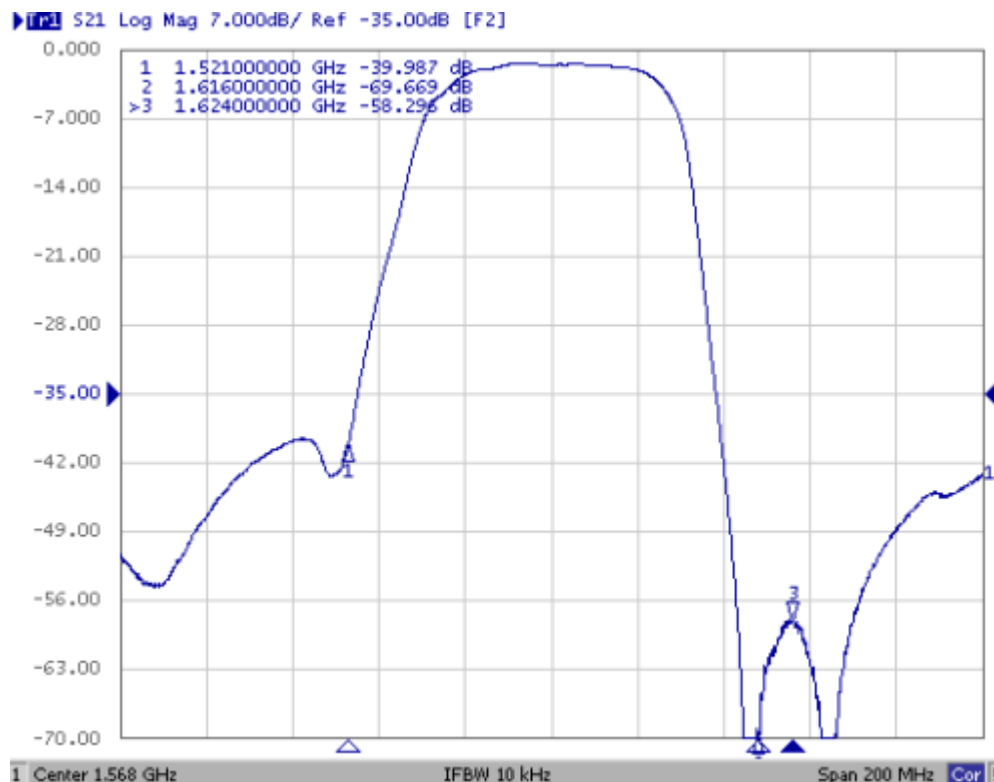
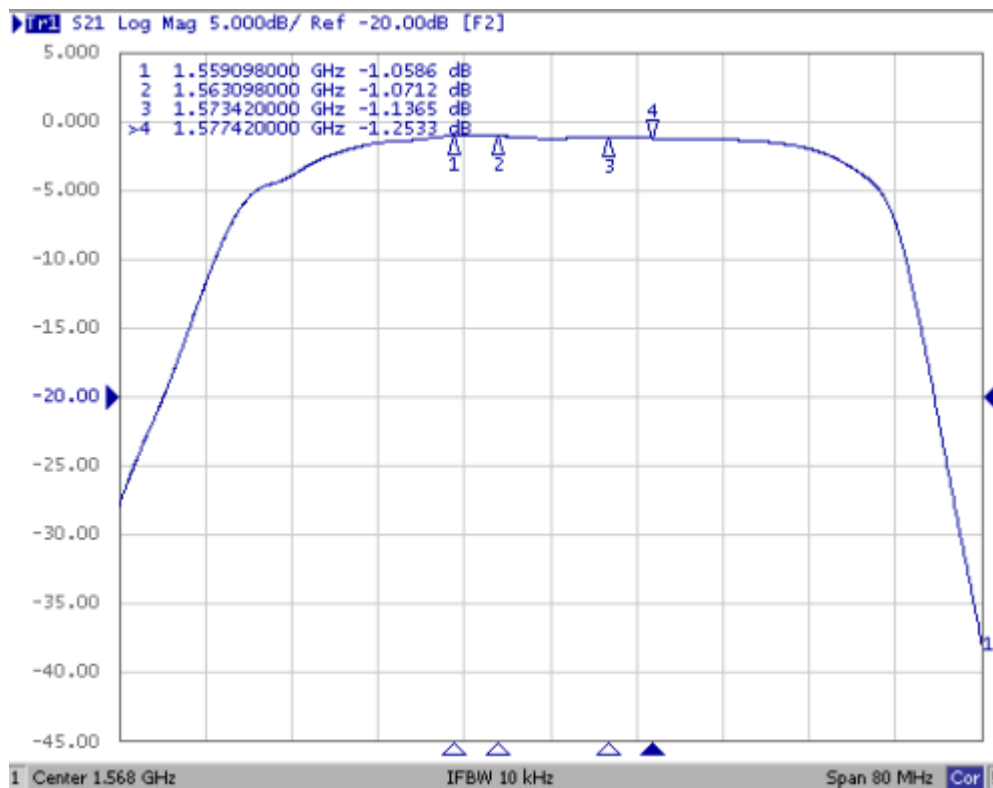
□ : Date Code(Follow the table from planner each year)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| WK14 | WK15 | WK16 | WK17 | WK18 | WK19 | WK20 | WK21 | WK22 | WK23 | WK24 | WK25 | WK26 |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| WK27 | WK28 | WK29 | WK30 | WK31 | WK32 | WK33 | WK34 | WK35 | WK36 | WK37 | WK38 | WK39 |
| a | b | c | d | e | f | g | h | i | j | k | l | m |
| WK40 | WK41 | WK42 | WK43 | WK44 | WK45 | WK46 | WK47 | WK48 | WK49 | WK50 | WK51 | WK52 |
| n | o | p | q | r | s | t | u | v | w | x | y | z |

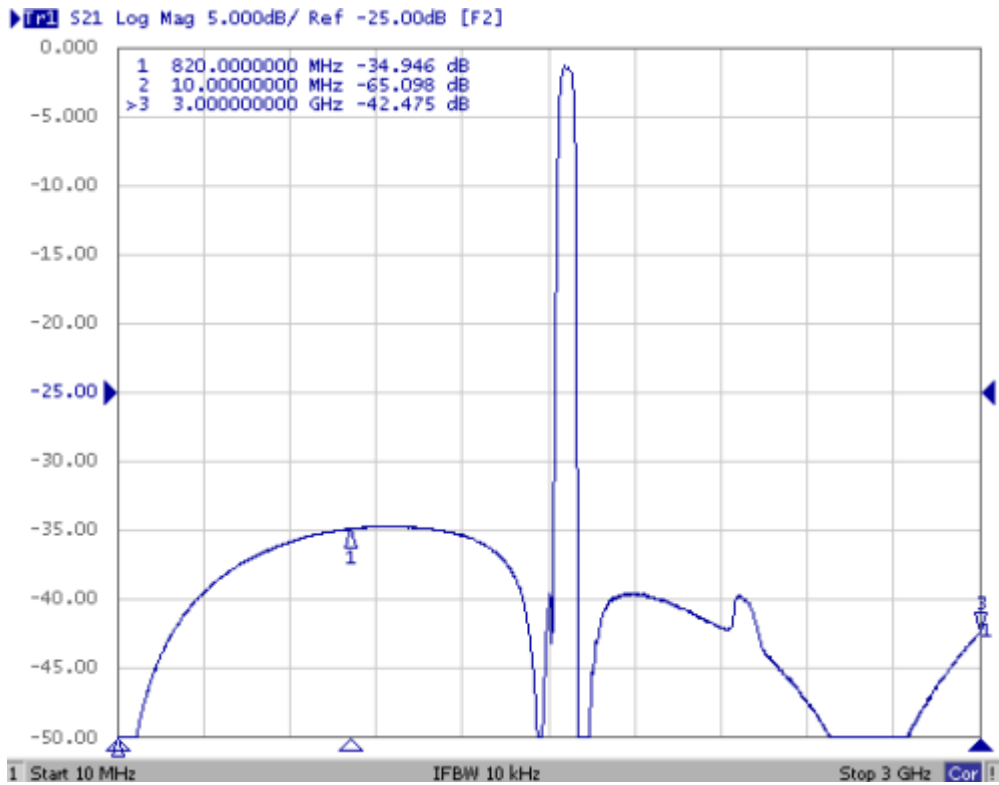
E. PCB Footprint :



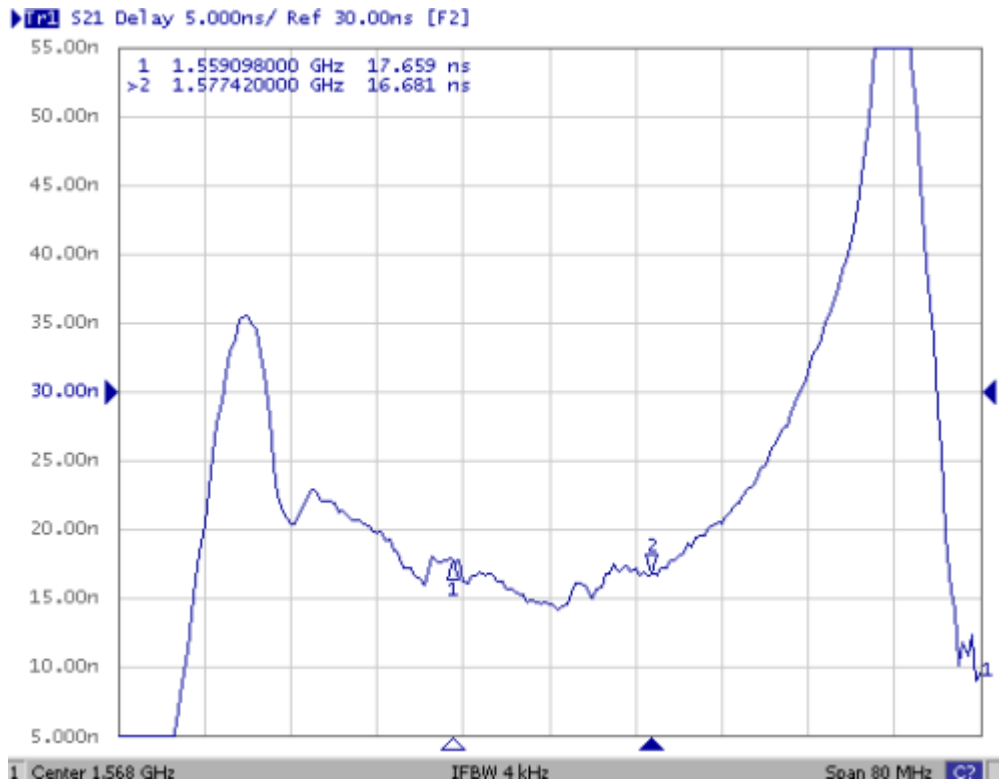
F. Frequency Characteristics :
Transfer function



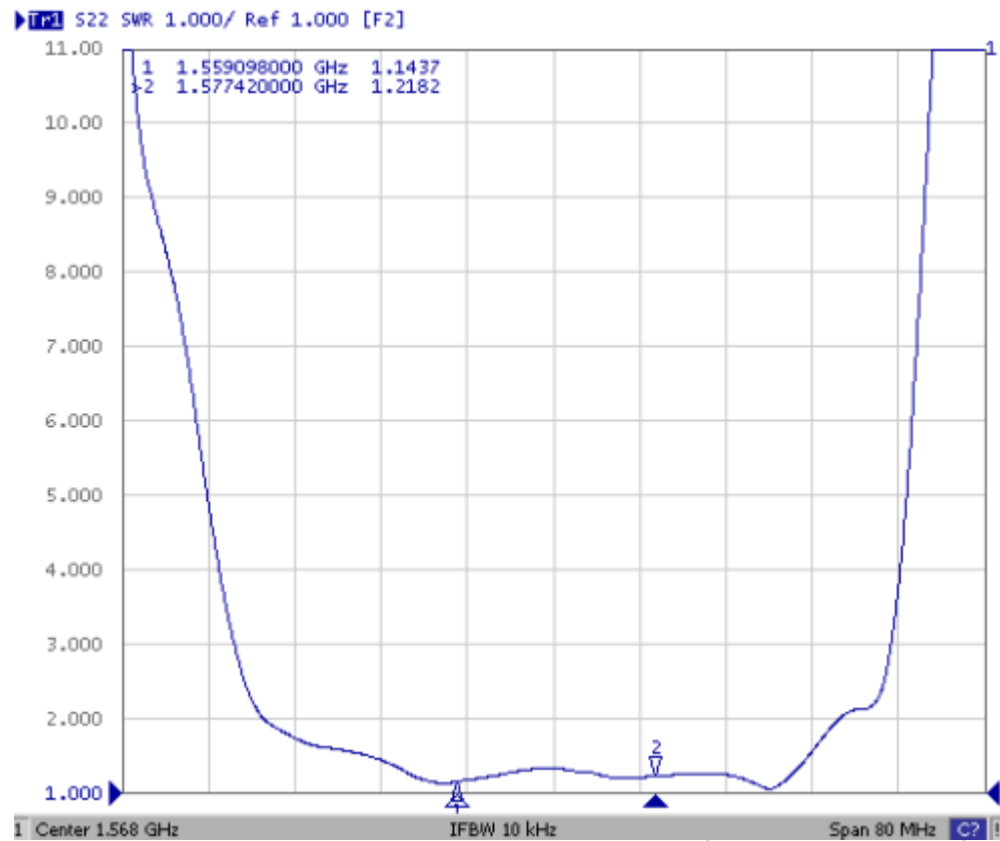
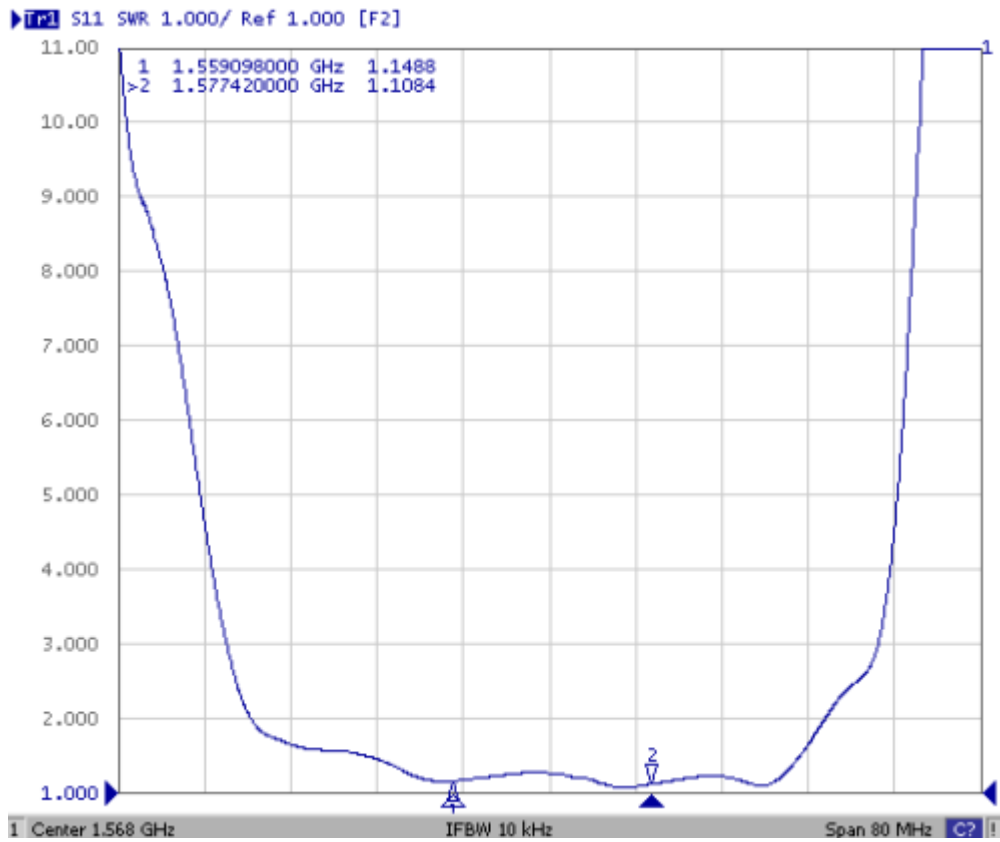
Wide band :



Group delay ripple :



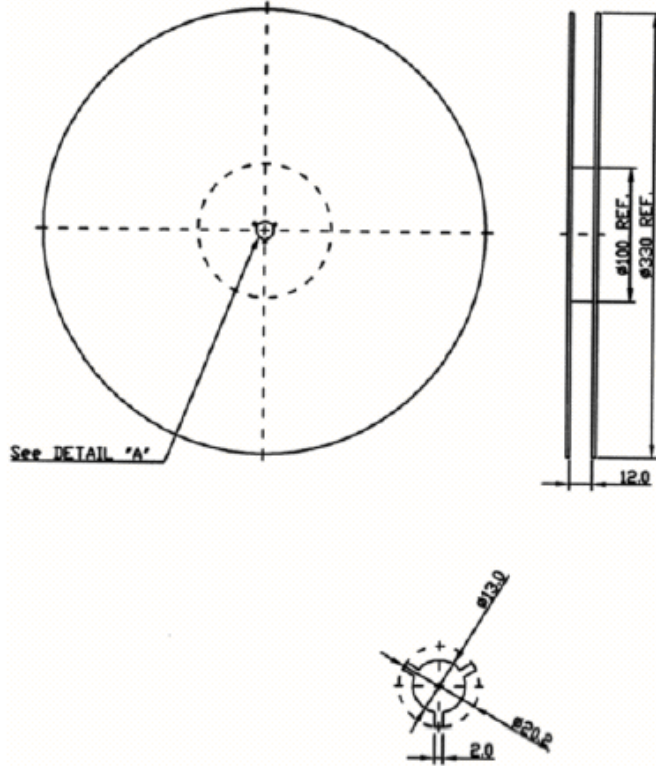
VSWR_S11 :



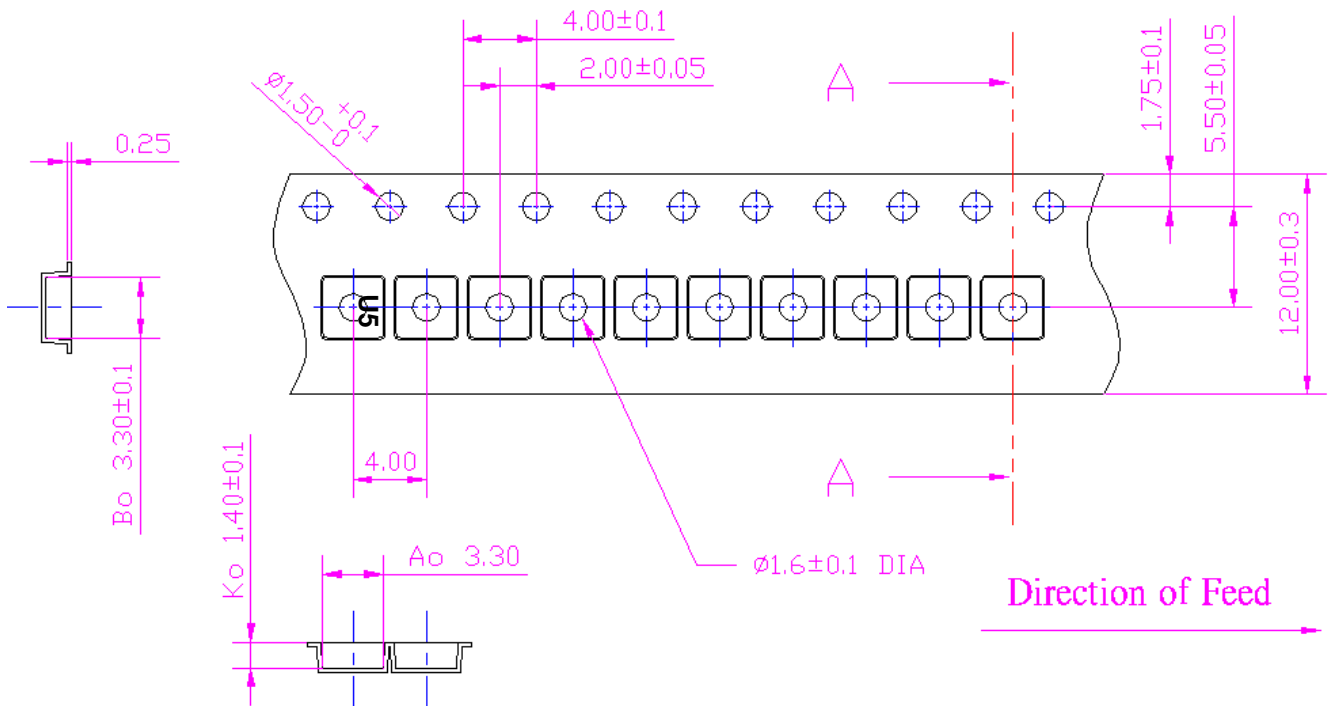
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

