

## Product Specifications Approval Sheet

Product Description: SAW Filter 950.75 MHz (BW 18.5 MHz) SMD3030

TST Parts No.: TA2643A

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

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

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

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

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

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

Approval by: \_\_\_\_\_ Andy Yu

Date: \_\_\_\_\_ 2020/04/10

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 950.75 MHz SMD3030

MODEL NO.: TA2643A

Rev. NO. 1.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

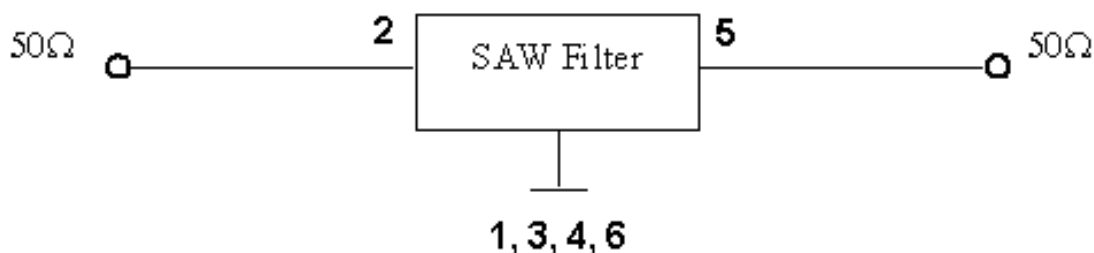
Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

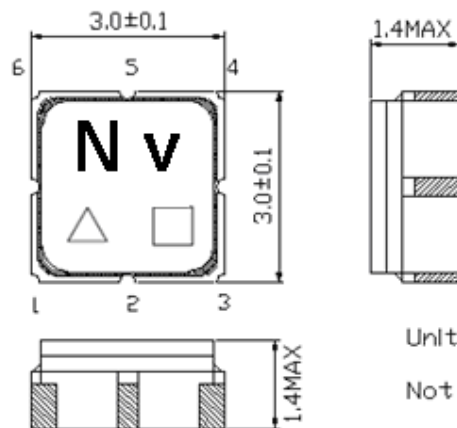
| Item                                    | Unit  | Min. | Typ.   | Max. |
|-----------------------------------------|-------|------|--------|------|
| Center Frequency                        | MHz   | -    | 950.75 | -    |
| Insertion loss (941.5 ~ 960 MHz)        | dB    |      | 2.25   | 3.5  |
| VSWR(941.5 ~ 960 MHz)                   |       |      | 1.76   | 2.0  |
| Group Delay at Fc                       | ns    |      | 33.6   | 45   |
| Group Delay ripple(941.5 ~ 960 MHz)     | ns    |      | 28.09  | 60   |
| Amplitude ripple (941.5 ~ 960 MHz)      | dB    | -    | 1.12   | 2.2  |
| Attenuation (Reference level from 0 dB) |       |      |        |      |
| 355 ~ 917 MHz                           | dB    | 33   | 40     | -    |
| 985 ~ 1555 MHz                          | dB    | 35   | 45     |      |
| Temperature Coefficient of Frequency    | ppm/k | -    | -36    | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer

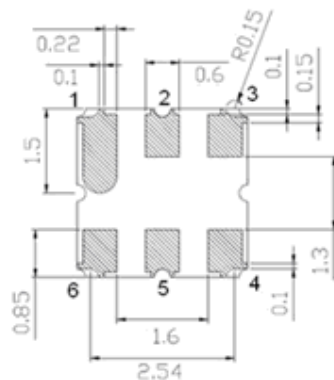


#### D. OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm



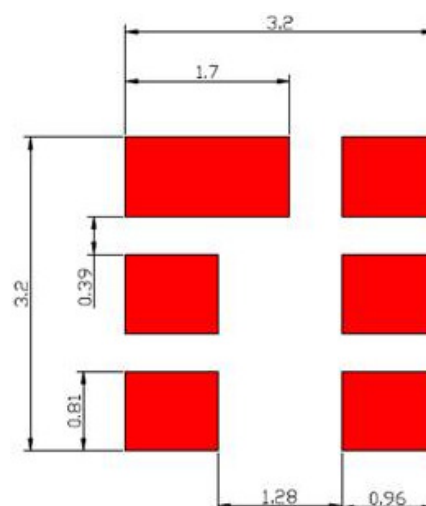
| Pin No. | Symbol | Function |
|---------|--------|----------|
| 1       | GND    | Ground   |
| 2       | IN     | Input    |
| 3       | GND    | Ground   |
| 4       | GND    | Ground   |
| 5       | OUT    | Output   |
| 6       | GND    | Ground   |

△ : Year Code (2009->9, 2010->0, ..., 2018->8)

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

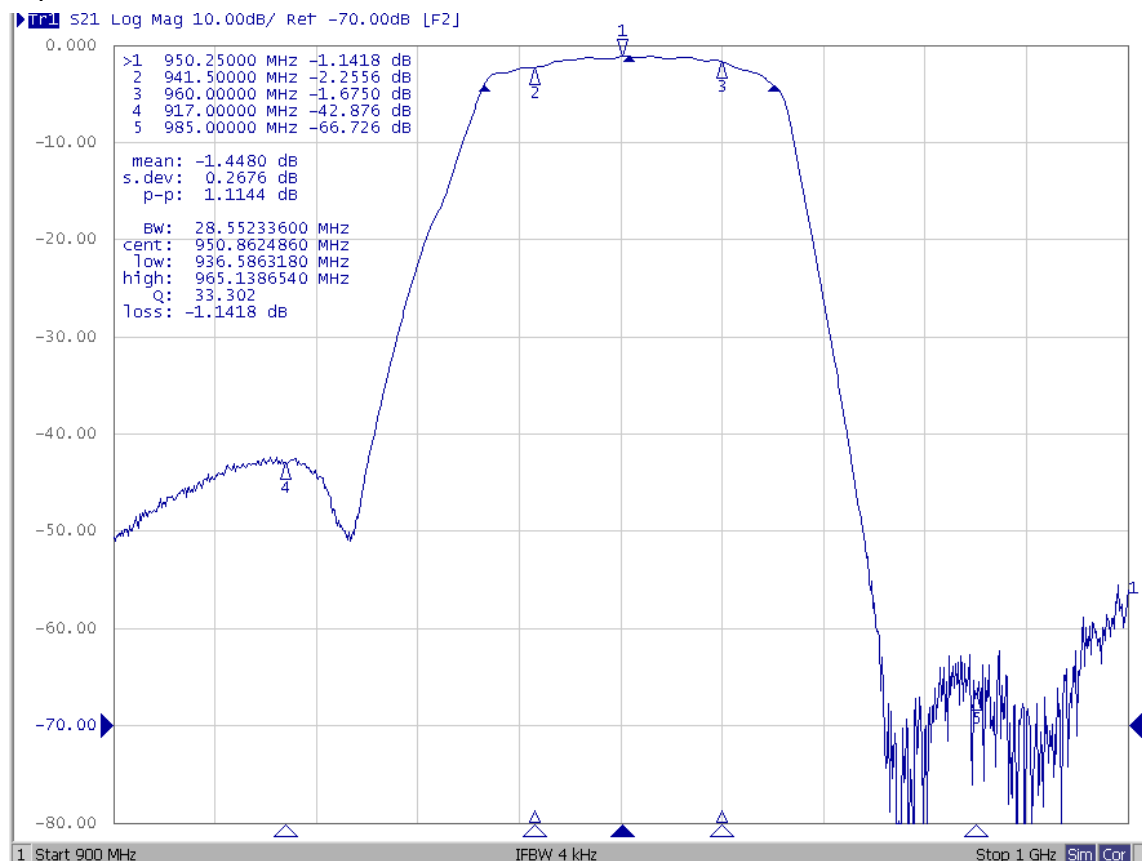
|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
| A    | B    | C    | 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:

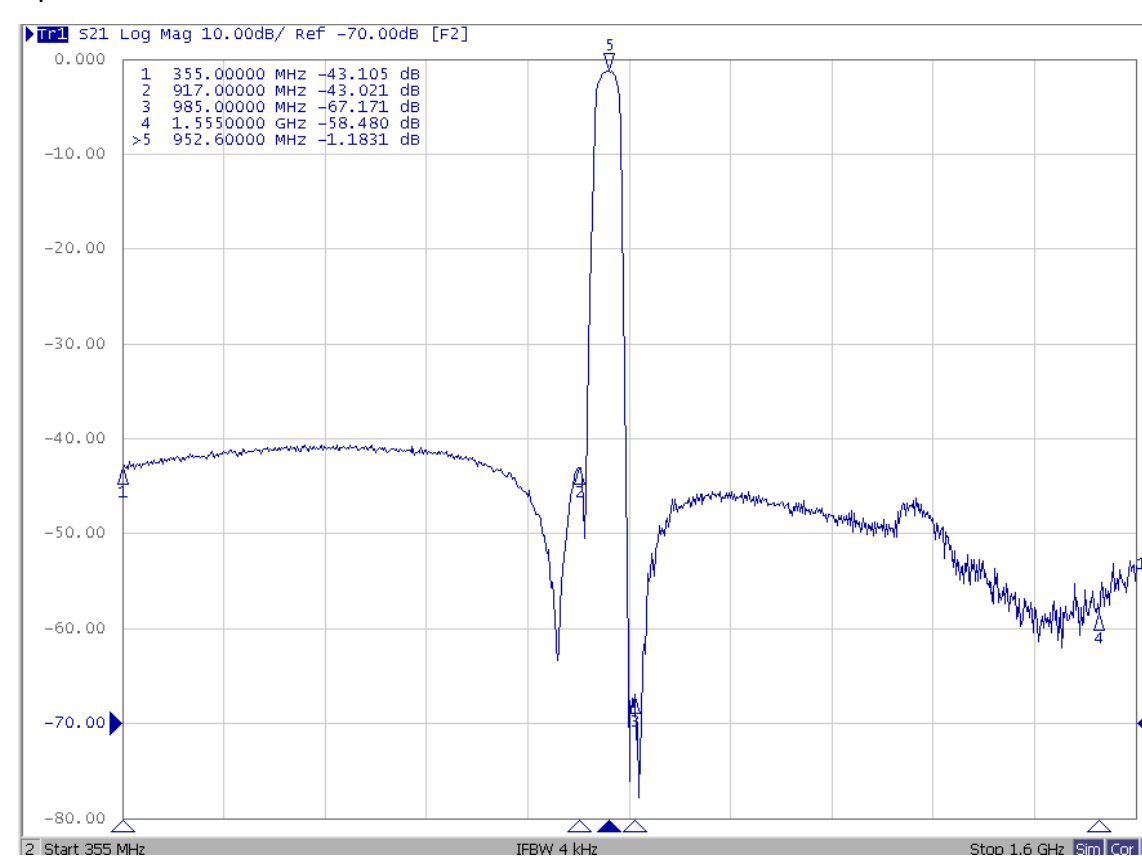


## F. FREQUENCY CHARACTERISTICS:

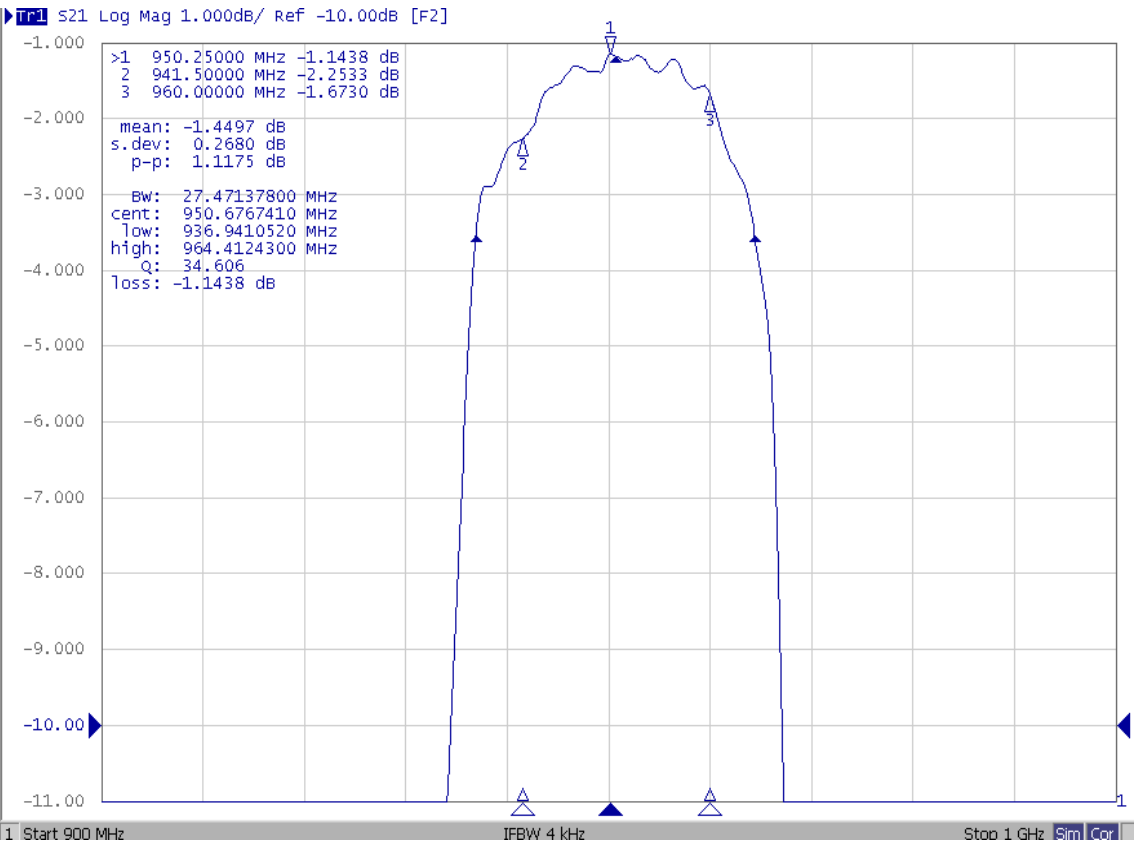
Span 100 MHz



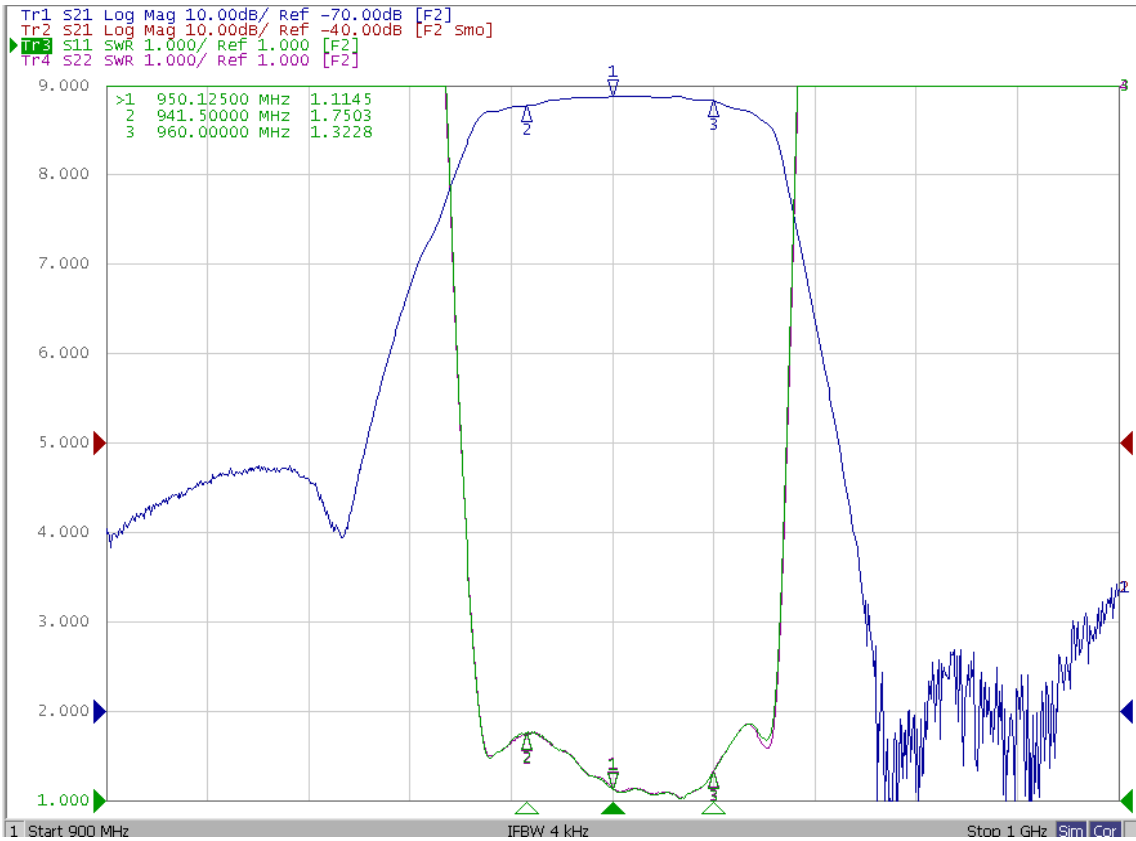
Span 1600MHz



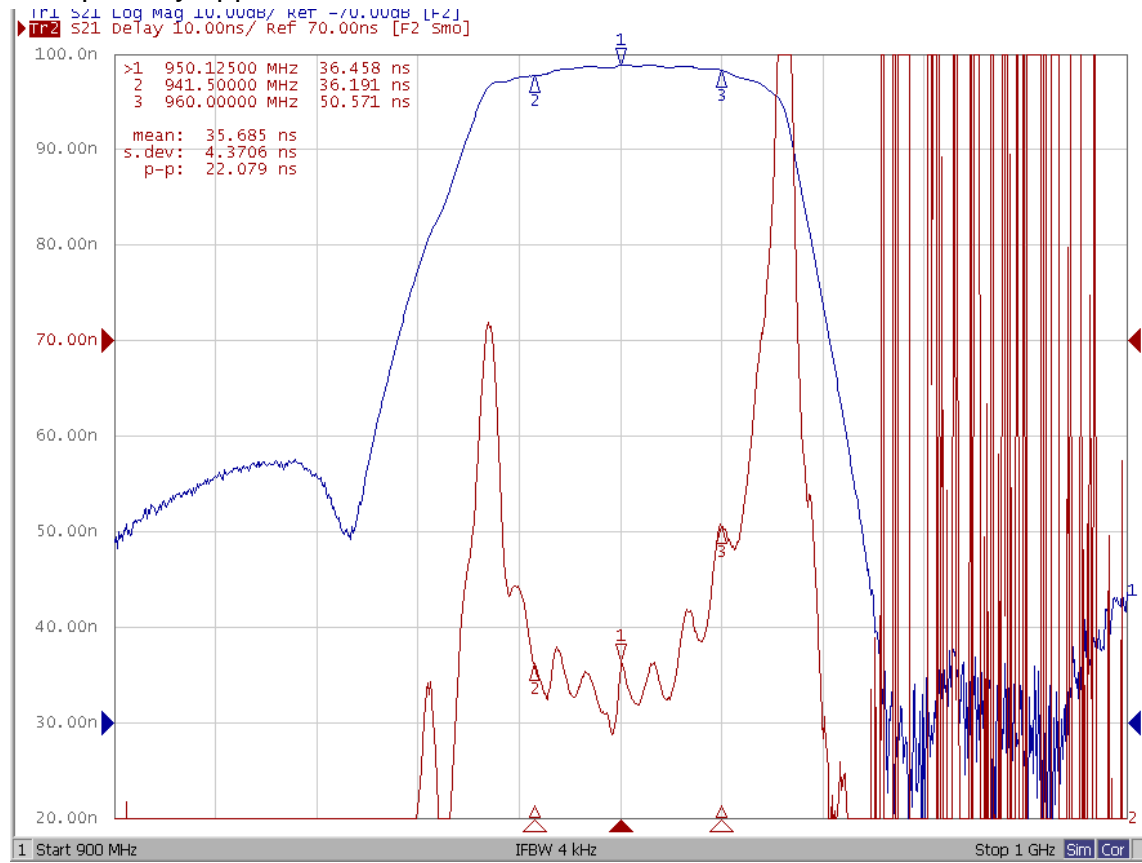
Span 100 MHz



VSWR



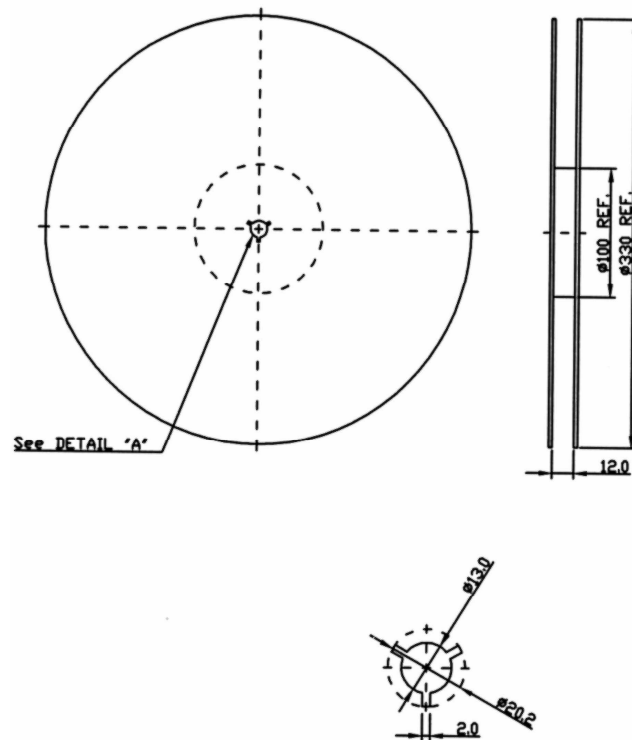
## Group Delay ripple



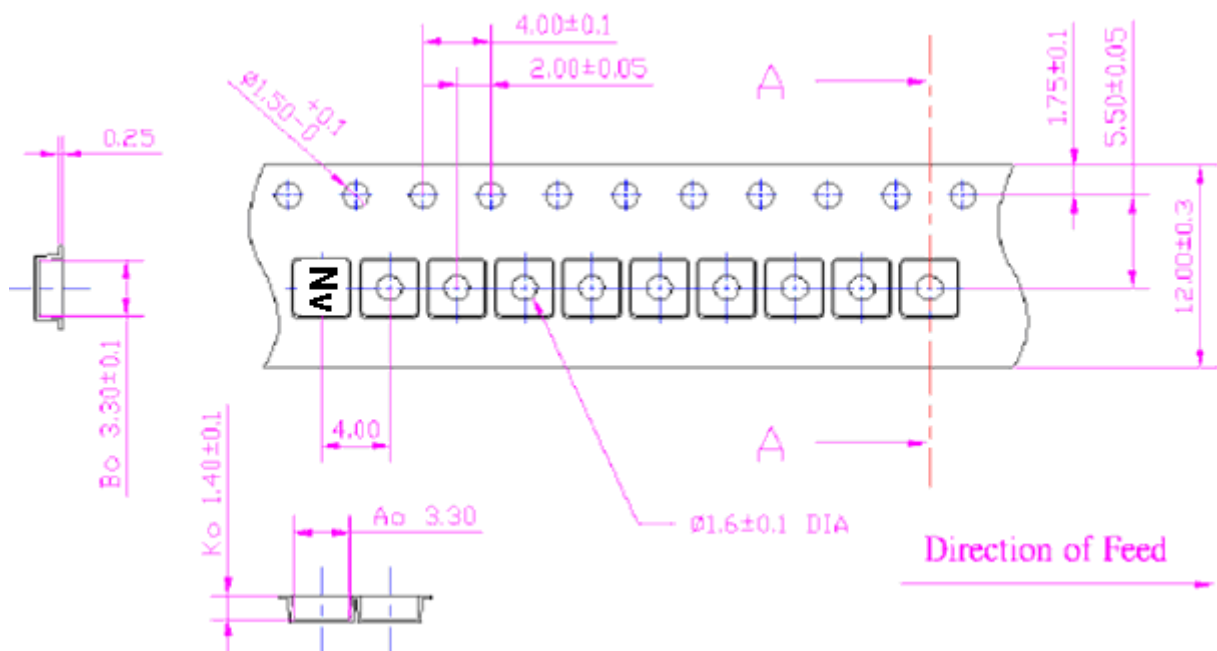
## G. PACKING: (Ref. WI-75M03)

### 1. REEL DIMENSION

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



## 2. TAPE DIMENSION



#### H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃ +0/-5℃ peak (20~40sec).
4. Time: 2 times.

