



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Filter 1207.5 MHz SMD 1.1X0.9 mm (BW=83MHz)

TST Parts No.: TA2637A

Customer Parts No.: _____

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

Checked by: _____ Bob Chau 

Approval by: _____ Andy Yu 

Date: _____ 6, 29, 2020

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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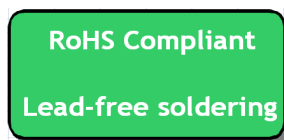
SAW Filter 1207.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2637A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm (5000h)
2. DC Voltage : 3 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +125 °C
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 3



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : Tspec = -30 °C to +85 °C

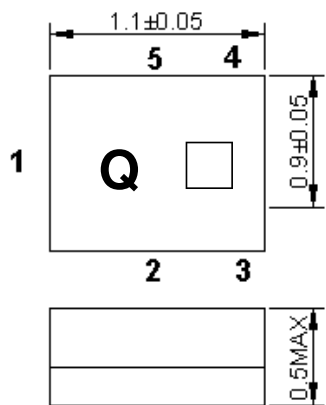
Terminating source impedance : Zs = 50 Ω

Terminating load impedance : ZL = 50 Ω

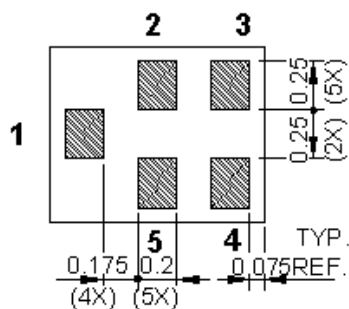
| Item | Unit | Min. | Typ. | Max. |
|---|-------------------|------|--------|------|
| Center Frequency Fc | MHz | - | 1207.5 | - |
| Insertion Loss (1166.22~1205.094 MHz) | IL | - | 2.3 | 3 |
| Insertion Loss (1205.094~1226.577 MHz) | IL | - | 1.9 | 3 |
| Insertion Loss (1226.577~1228.623 MHz) | IL | - | 1.9 | 3 |
| Insertion Loss (1228.623~1249.136 MHz) | IL | - | 2.5 | 3.5 |
| Amplitude Ripple (1166.22~1205.094 MHz) | dB _{p-p} | - | 1 | 1.8 |
| Amplitude Ripple (1205.094~1226.577 MHz) | dB _{p-p} | - | 0.5 | 1 |
| Amplitude Ripple (1226.577~1228.623 MHz) | dB _{p-p} | - | 0.2 | 1 |
| Amplitude Ripple (1228.623~1249.136 MHz) | dB _{p-p} | - | 0.6 | 1.5 |
| VSWR (1166.22~1249.136 MHz) | | - | 1.7 | 2.1 |
| Group Delay Ripple (1166.22~1205.094 MHz) | ns | - | 12 | 30 |
| Group Delay Ripple (1205.094~1226.577 MHz) | ns | - | 2 | 8 |
| Group Delay Ripple (1226.577~1228.623 MHz) | ns | - | 1 | 10 |
| Group Delay Ripple (1228.623~1249.136 MHz) | ns | - | 3 | 20 |
| Attenuation (refer to 0 dB) | | | | |
| 698 ~ 748 MHz | dB | 35 | 41 | - |
| 807 ~ 915 MHz | dB | 28 | 32 | - |

| | | | | | |
|-------------------------|-----|-------|----|-----|---|
| 925 ~ 960 | MHz | dB | 27 | 31 | - |
| 1427 ~ 1463 | MHz | dB | 25 | 28 | - |
| 1626.5 ~ 1660.5 | MHz | dB | 28 | 34 | - |
| 1695 ~ 1785 | MHz | dB | 20 | 35 | - |
| 1850 ~ 2025 | MHz | dB | 20 | 33 | - |
| 2300 ~ 2690 | MHz | dB | 27 | 31 | - |
| 3400 ~ 3800 | MHz | dB | 20 | 28 | - |
| 4400 ~ 4900 | MHz | dB | 20 | 25 | - |
| 5150 ~ 5925 | MHz | dB | 20 | 25 | - |
| Temperature Coefficient | | ppm/K | - | -36 | - |

C.OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

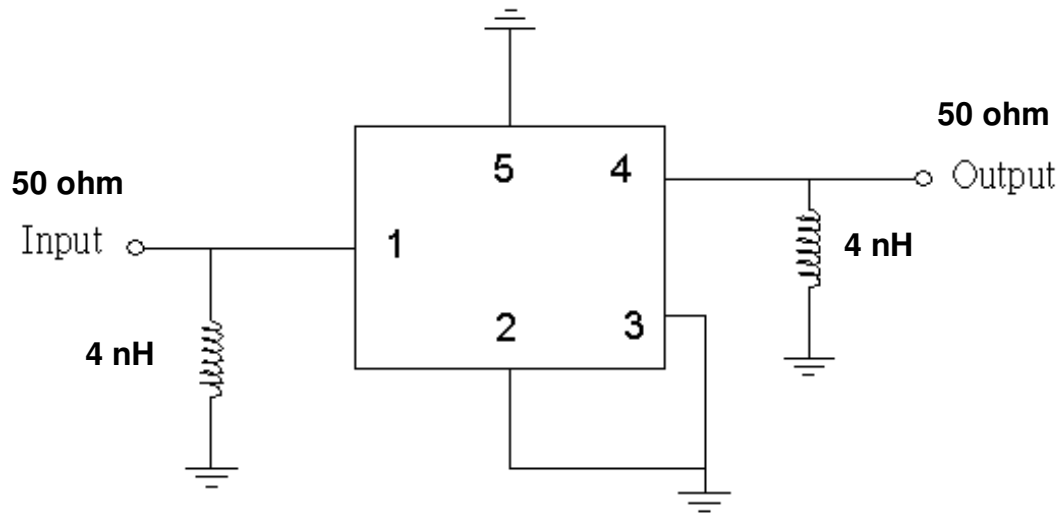


1 : Input
 4 : Output
 2, 3, 5 : Ground

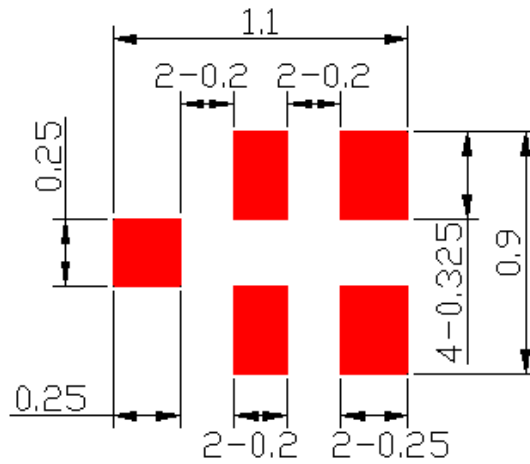
□ : Year/Month Code (Follow the table)

| 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>i</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> |

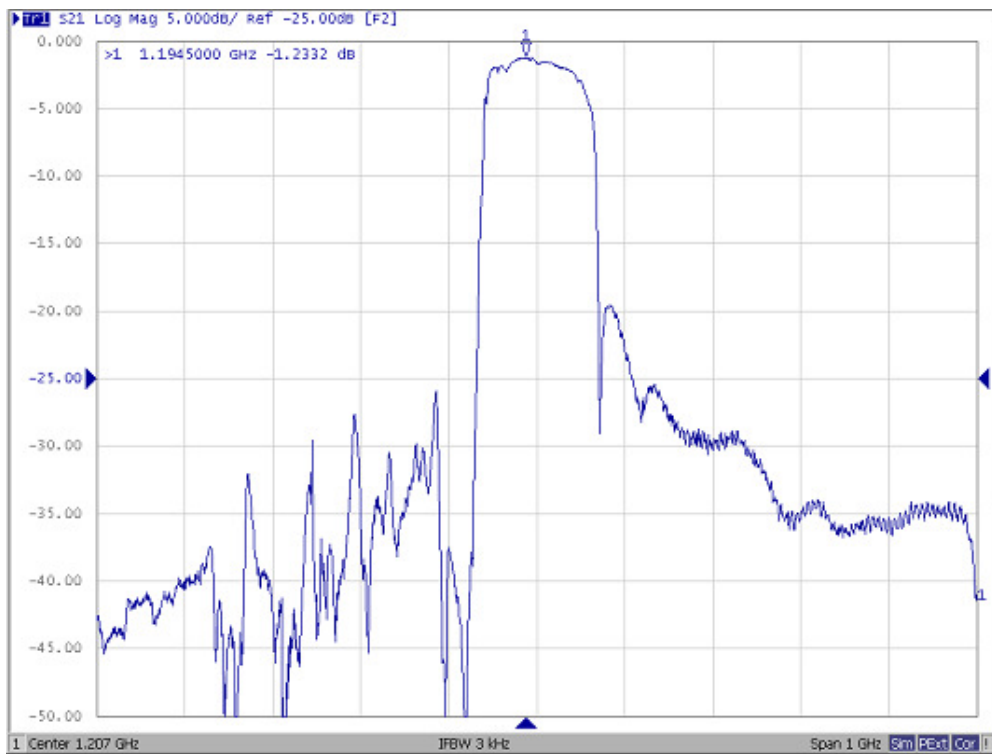
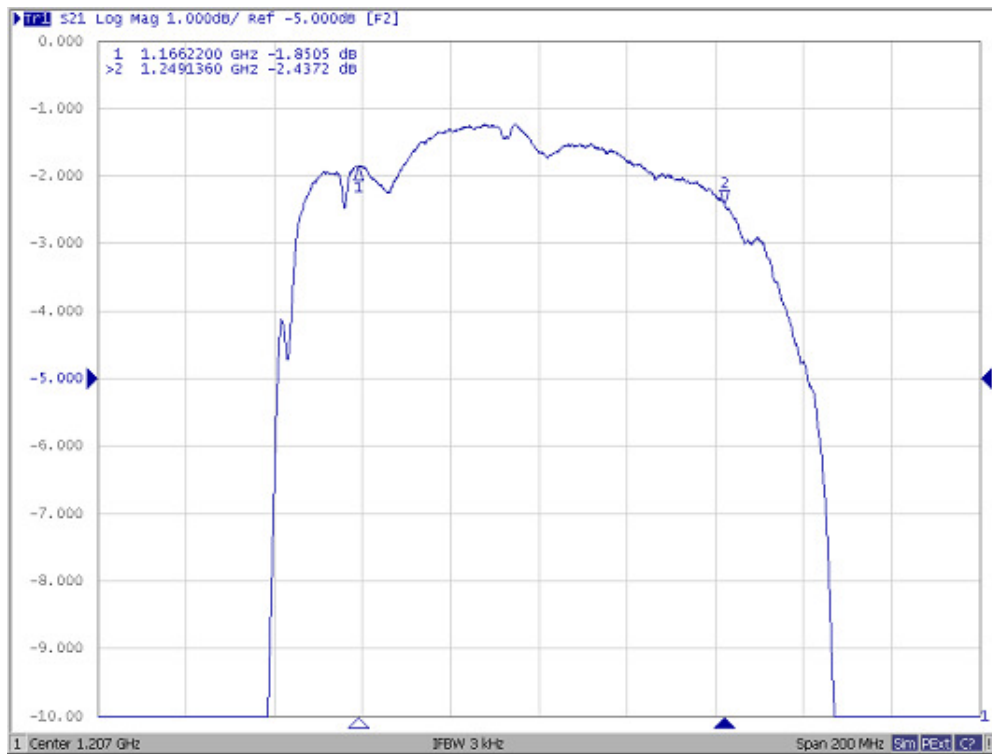
D. MEASUREMENT CIRCUIT:

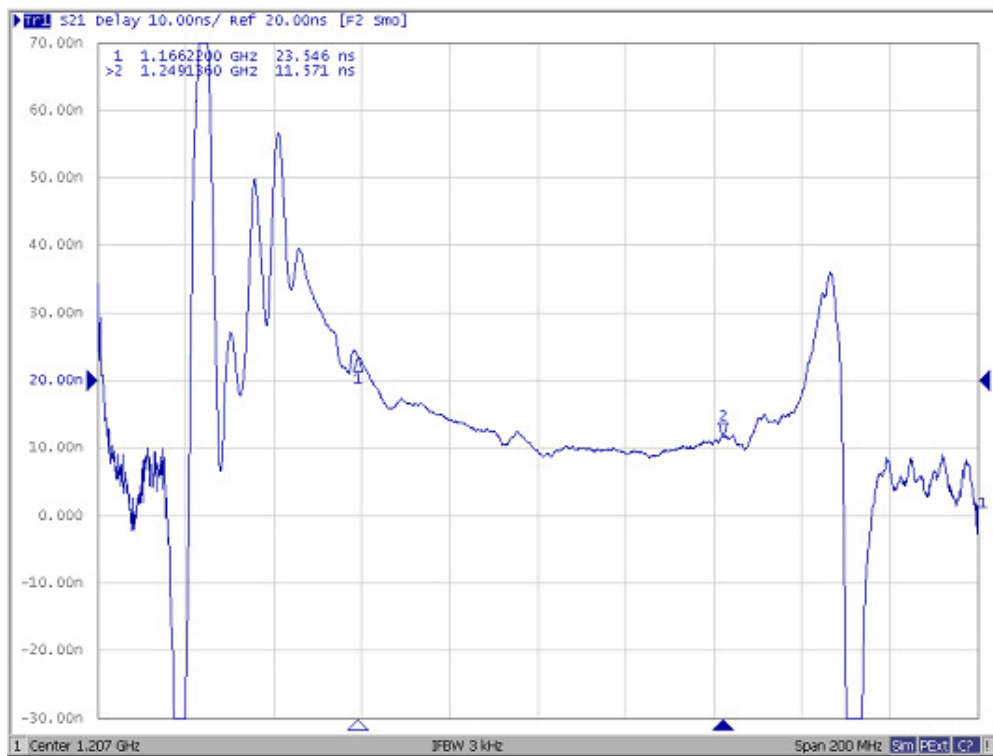
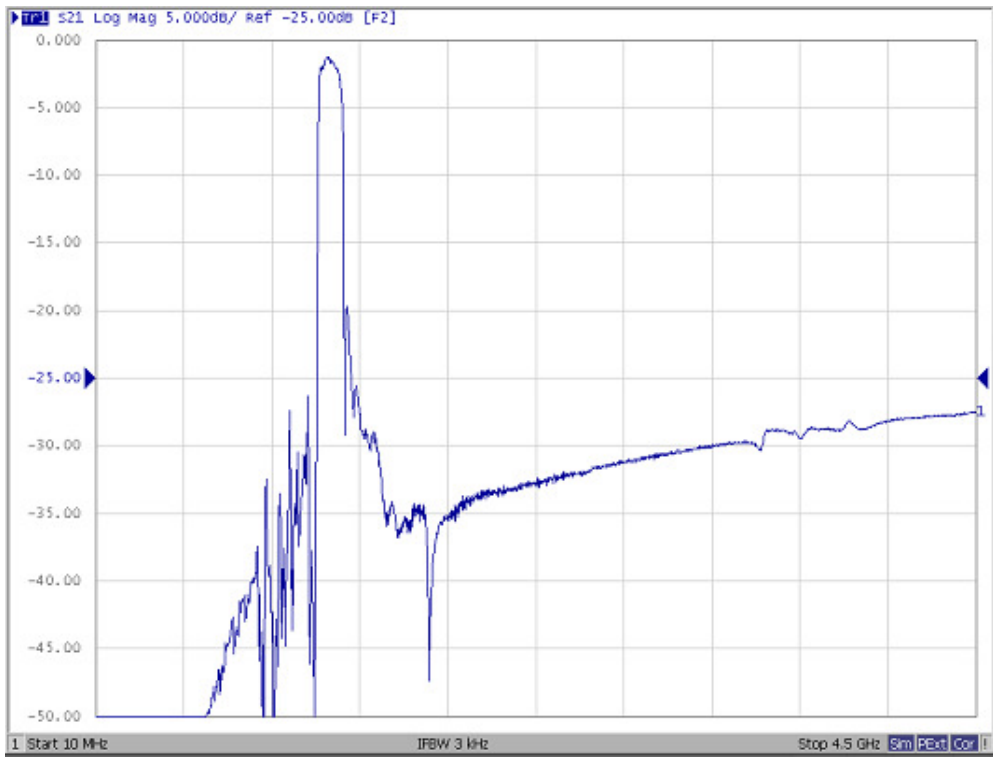


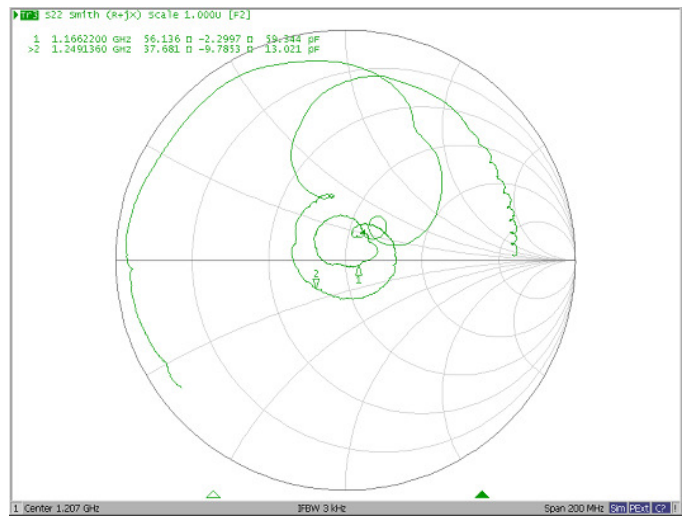
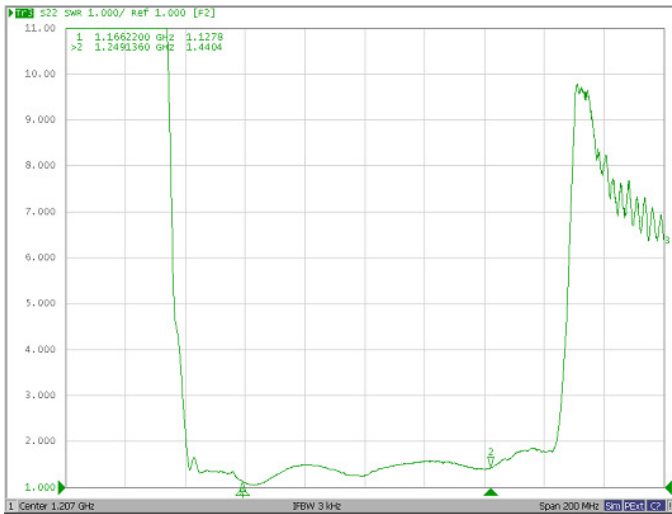
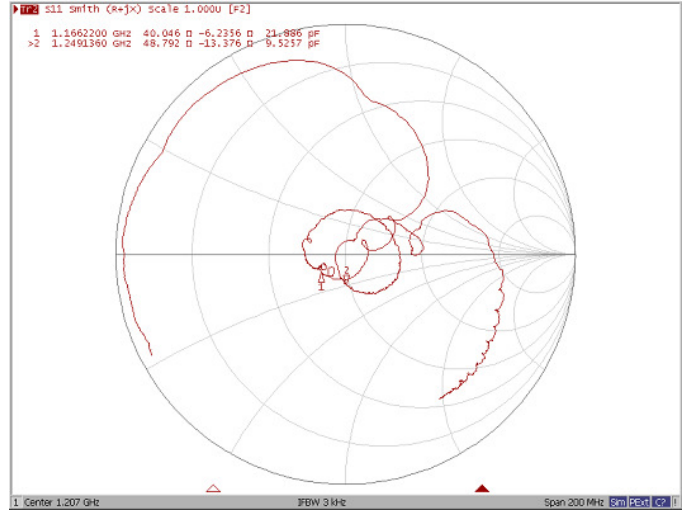
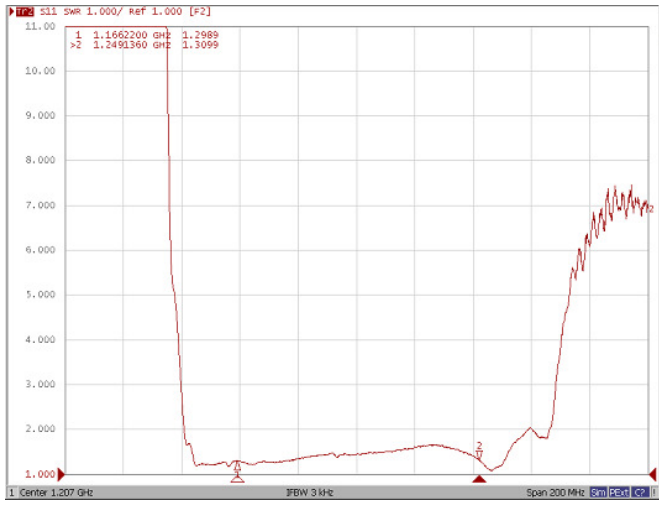
E. PCB Footprint :



F. Frequency Characteristics:



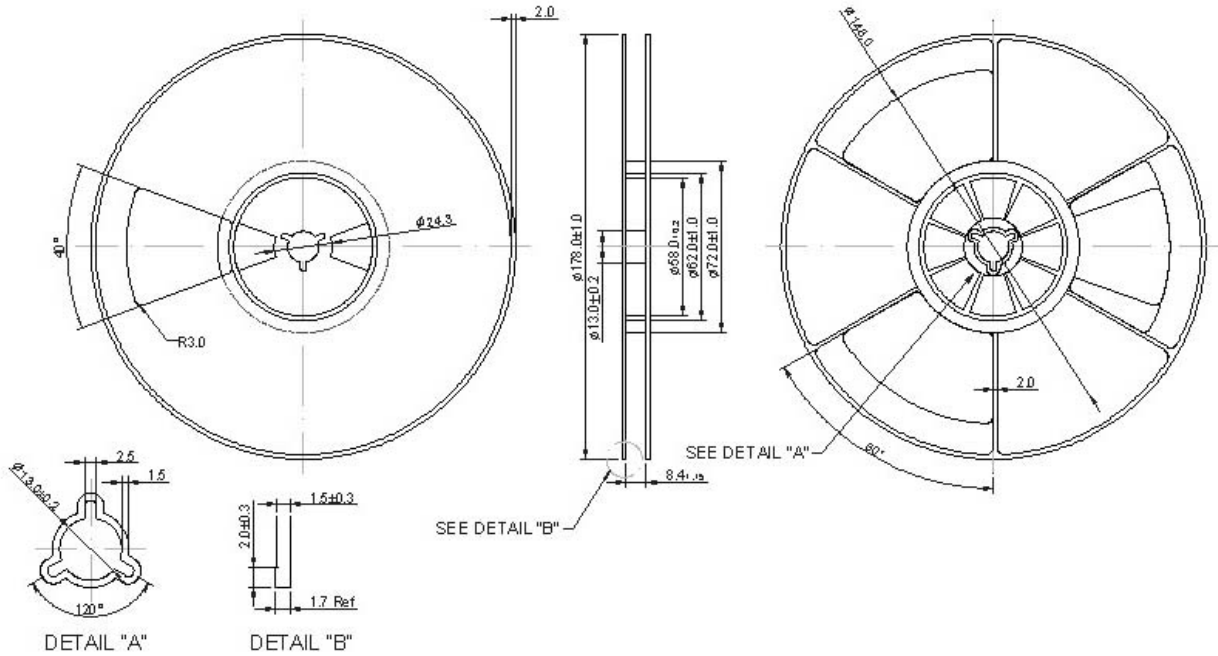




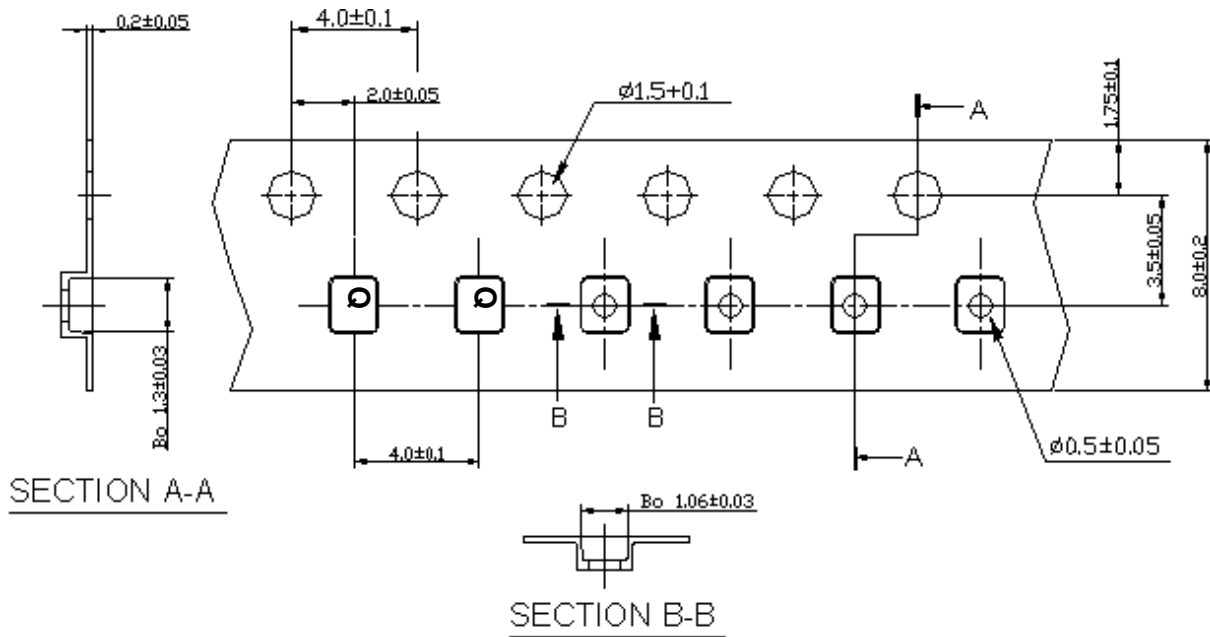
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



Direction of Feed

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.

