



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 Name: SAW Rx Filter 788 MHz LTE Band 28 SMD 1.1x0.9 mm (BW=30 MHz)

TST Parts No.: TA1898C Customer Part No.: _____

| |
|-----------------------------|
| Customer signature required |
| Company: _____ |
| Division: _____ |
| Approved by : _____ |
| Date: _____ |

Checked by: _____ Anne Chen *Anne Chen*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 01 . 02 .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 788 MHz

MODEL NO.:TA1898C

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL3)
6. ESD: 100 V(MM), 200 V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

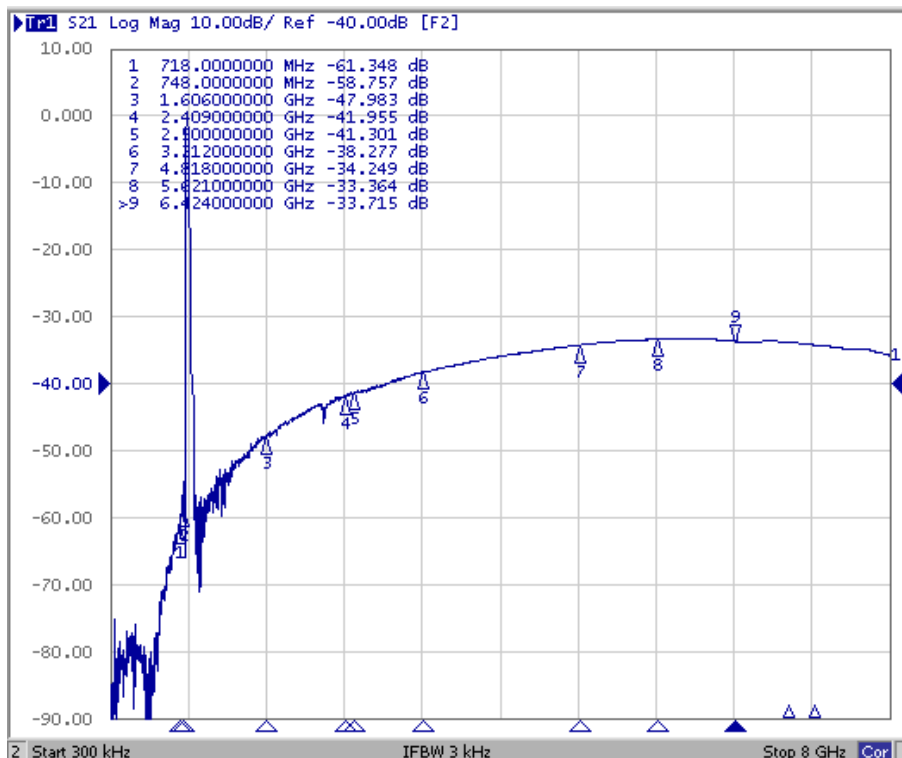
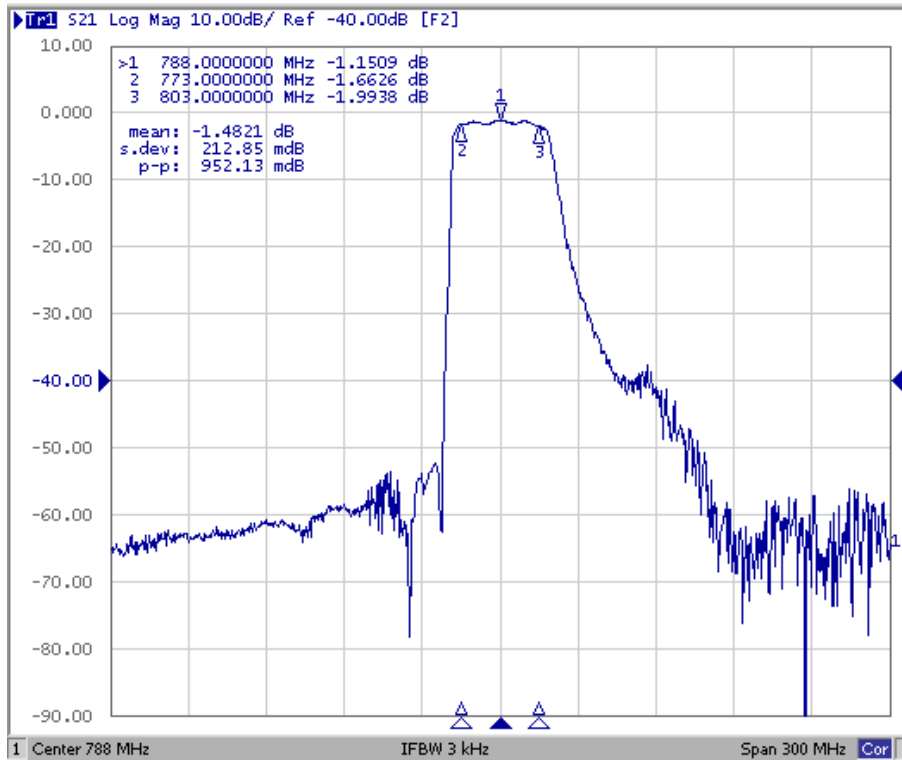
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

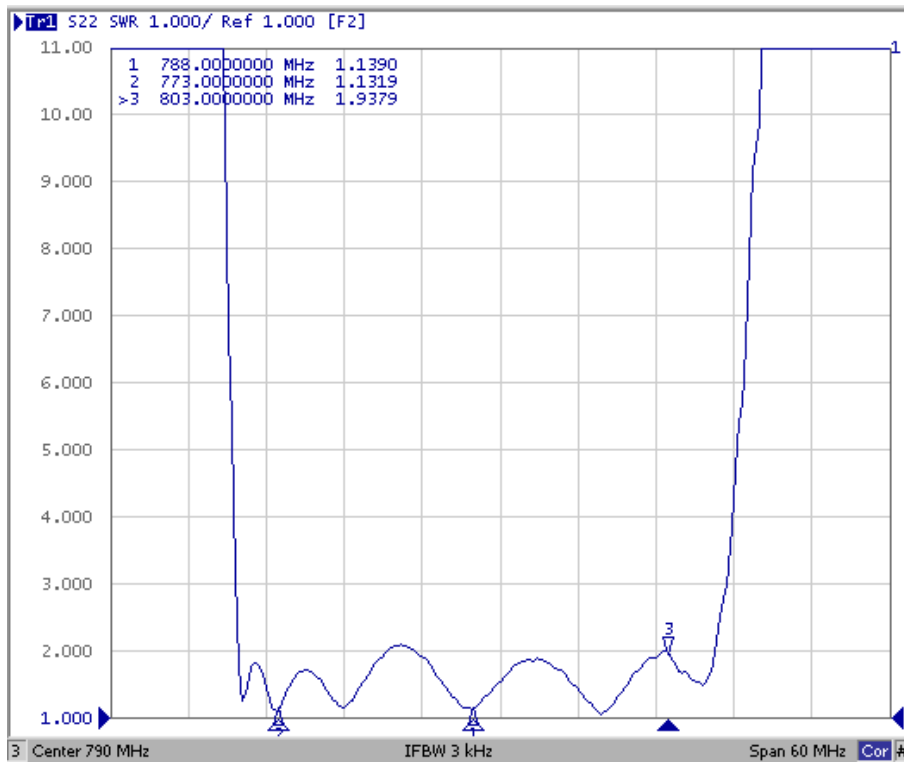
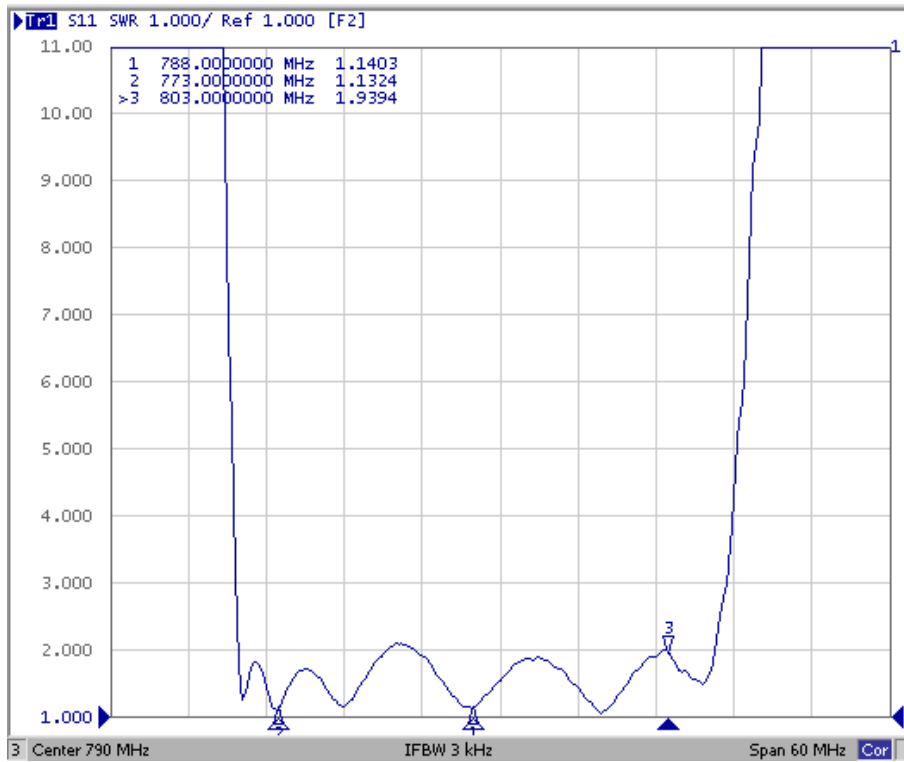
| Item | Unit | Min. | Typ. | Max. |
|--|-------------------|------|------|------|
| Center Frequency Fc | MHz | - | 788 | - |
| Insertion Loss (773~803 MHz) IL | dB | - | 2.0 | 3.6 |
| Amplitude Ripple (773~803 MHz) | dB _{p-p} | - | 1.0 | 2.6 |
| VSWR (773~803 MHz) | - | - | 2.2 | 2.8 |
| Attenuation (Reference level from 0 dB) | | | | |
| 703 ~ 718 MHz | dB | 46 | 60 | - |
| 718 ~ 748 MHz | dB | 46 | 52 | - |
| 1546 ~ 1606 MHz | dB | 40 | 49 | - |
| 1559 ~ 1606 MHz | dB | 40 | 49 | - |
| 2319 ~ 2409 MHz | dB | 35 | 43 | - |
| 2400 ~ 2500 MHz | dB | 35 | 43 | - |
| 3092 ~ 3212 MHz | dB | 30 | 41 | - |
| 3865 ~ 4015 MHz | dB | 30 | 39 | - |
| 4638 ~ 4818 MHz | dB | 30 | 38 | - |
| 4900 ~ 5950 MHz | dB | 30 | 38 | - |
| 5411 ~ 5621 MHz | dB | 30 | 38 | - |
| 6184 ~ 6424 MHz | dB | 30 | 39 | - |
| 6957 ~ 7227 MHz | dB | 30 | 38 | - |

C. FREQUENCY CHARACTERISTICS:

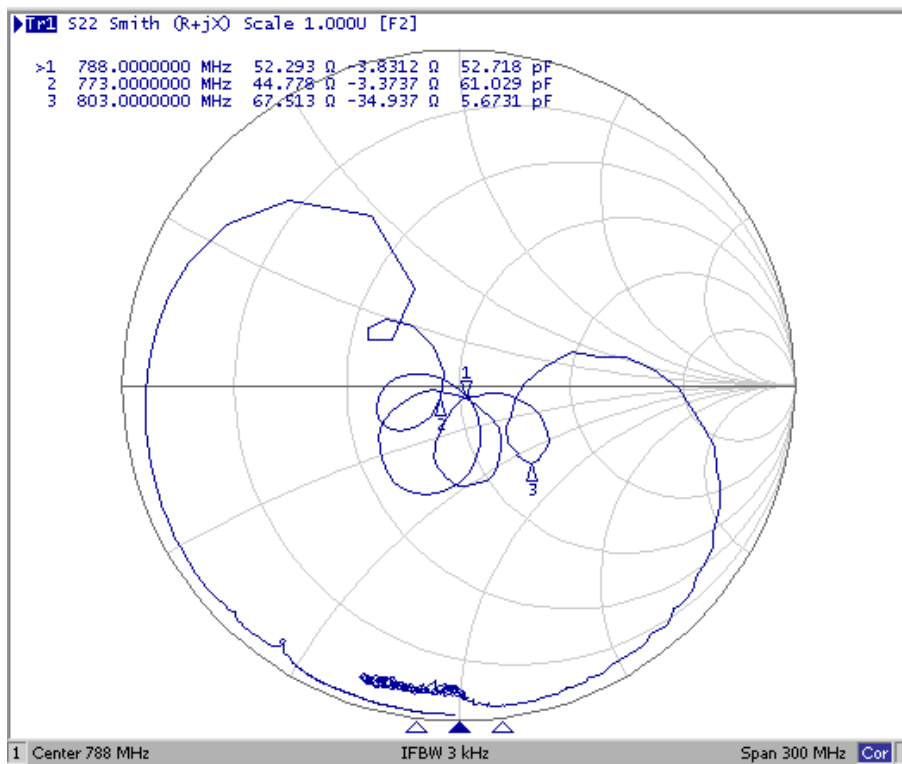
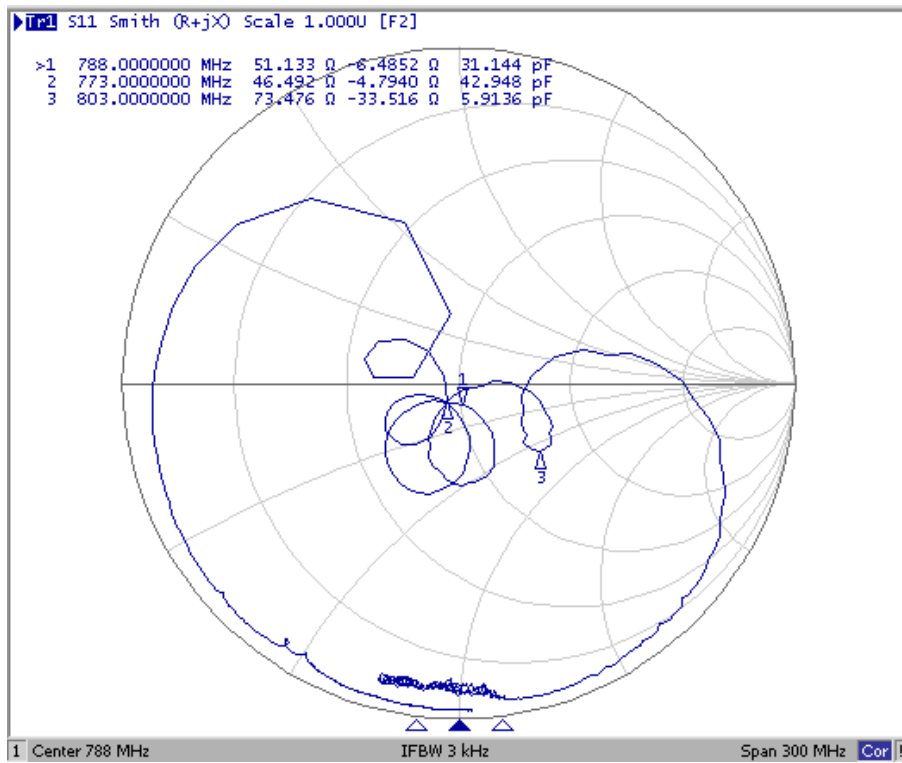


Reflection Functions:

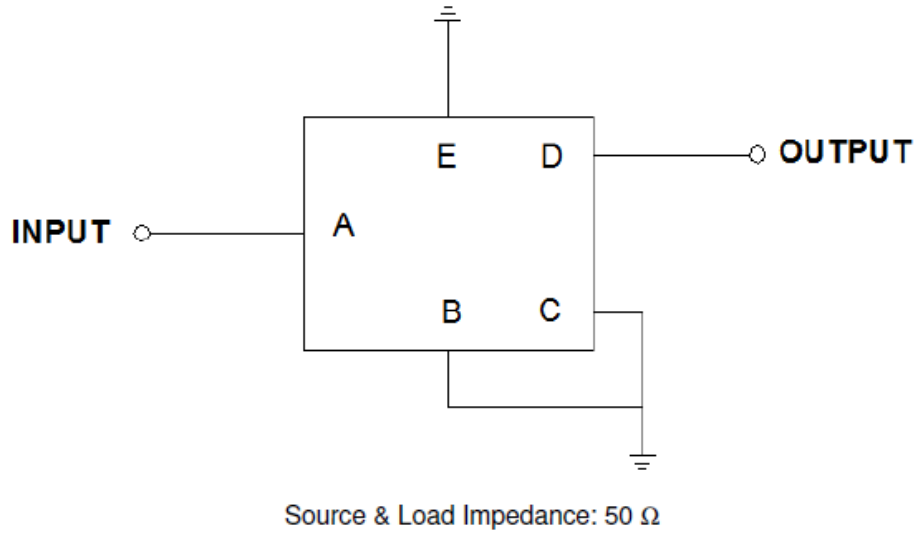
VSWR



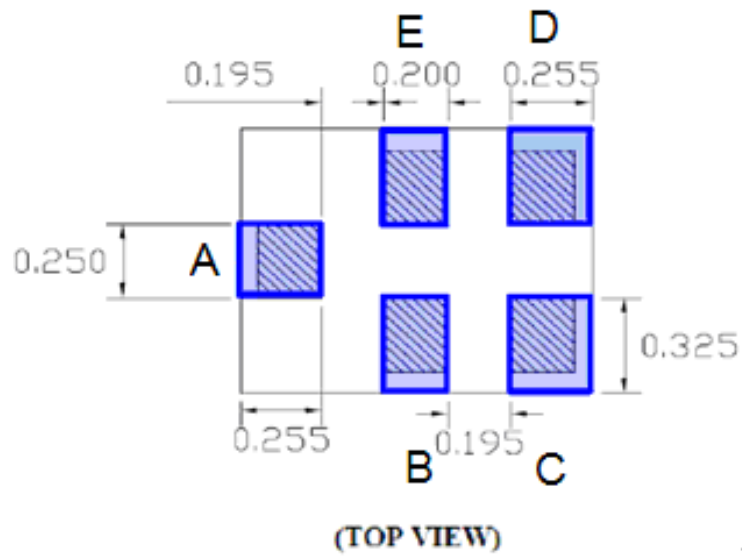
Smith Chart



D. MEASUREMENT CIRCUIT:

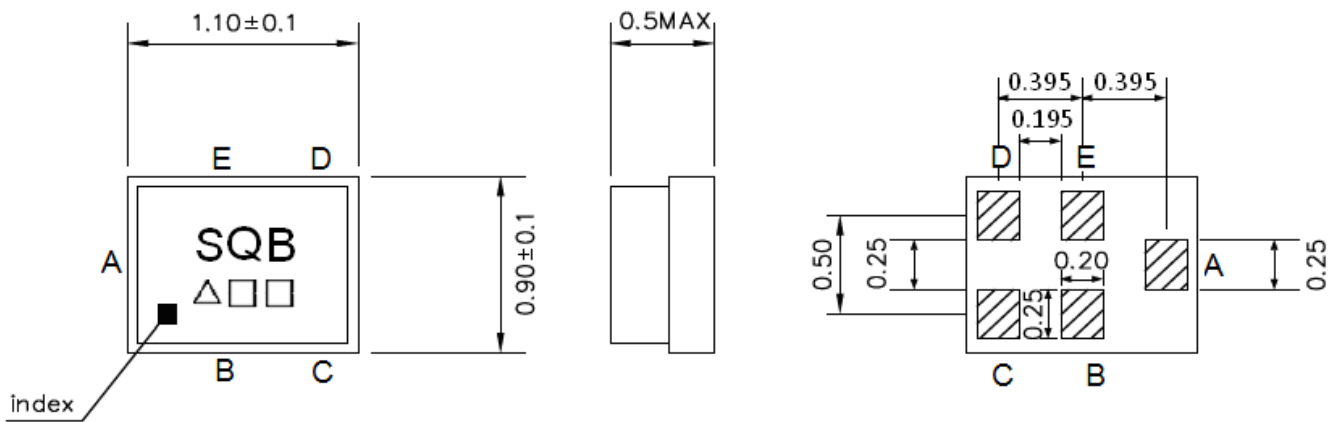


E. PCB Footprint:



F. OUTLINE DRAWING:

Device size: 1.1typ. x 0.9typ. x 0.5max.



Unit : mm

Pin Configuration

| Pin No. | Symbol | Function |
|---------|--------|----------------|
| A | IN | Unbalanced pin |
| B | GND | Ground |
| C | GND | Ground |
| D | OUT | Unbalanced pin |
| E | GND | Ground |

Marking name : **SQB**

△: Date code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

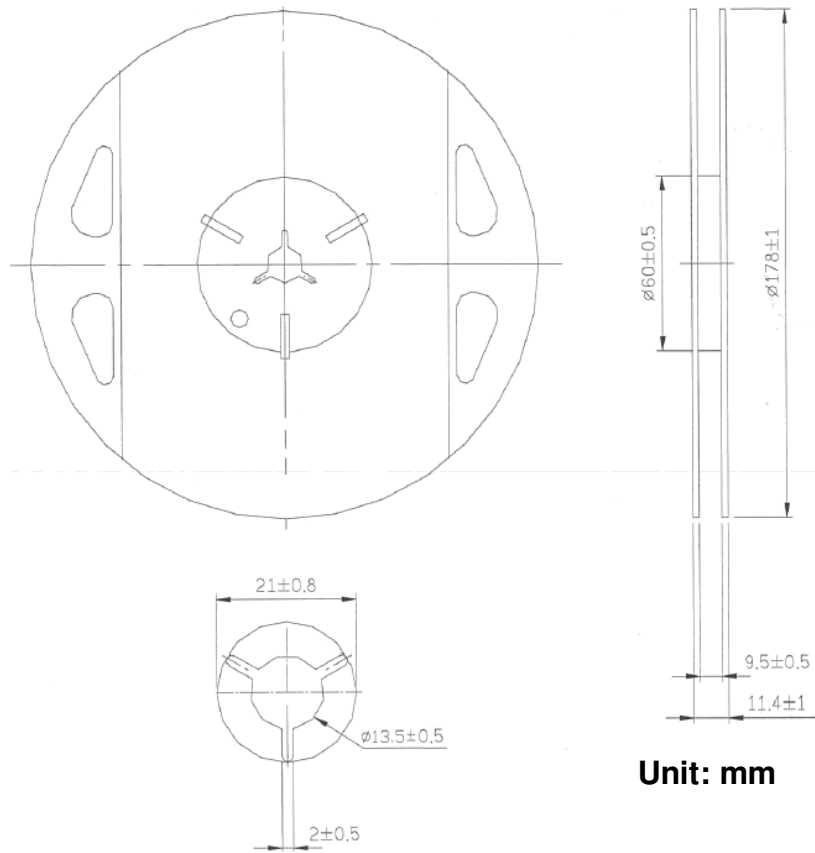
Date Code. Follow below table. (4-year cycle)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2019 / 2023 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2020 / 2024 | n | p | q | r | s | t | u | v | w | x | y | z |
| 2021 / 2025 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2022 / 2026 | N | P | Q | R | S | T | U | V | W | X | Y | Z |

G. PACKING:

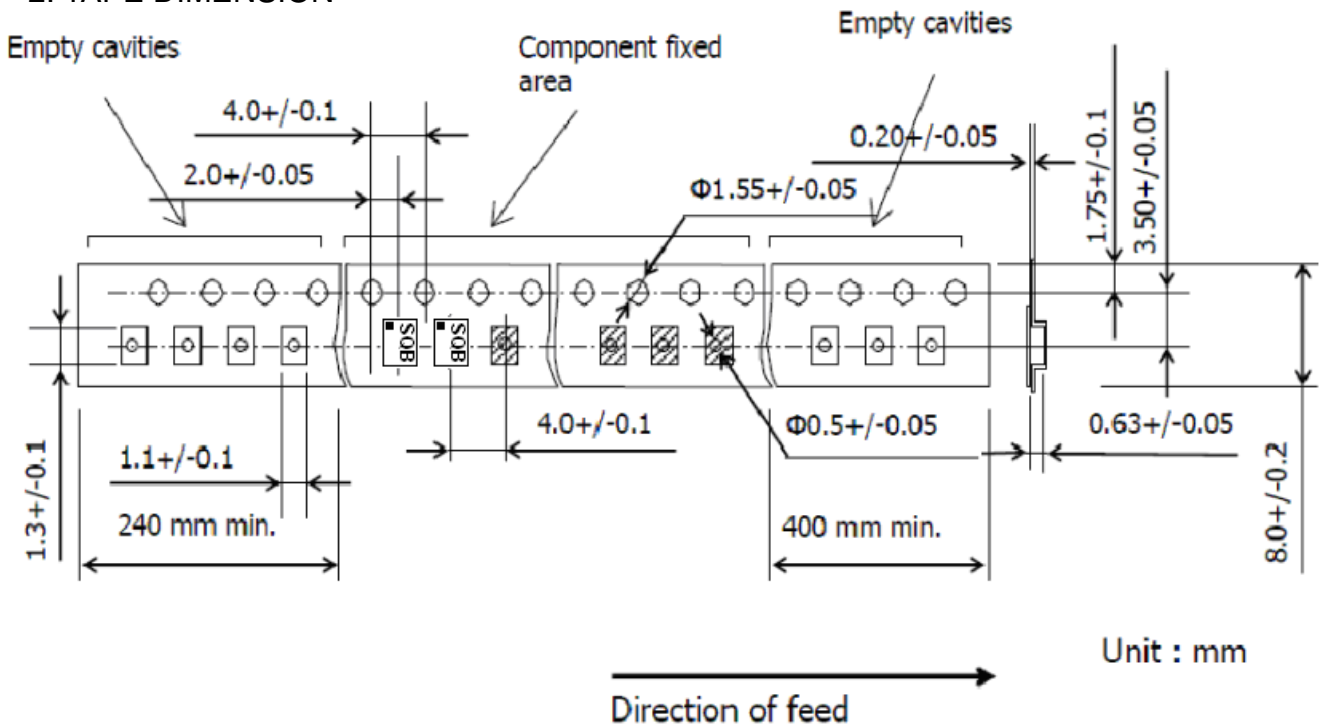
1. REEL DIMENSION

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



Unit: mm

2. TAPE DIMENSION



Unit : mm

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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

