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Product Specifications Approval Sheet

| Р | roduct Description | n: 38.2 MHz 5MHz E | SW SMD 75.0 x 5.0 | mm SAW IF Filter |
|--------------|--------------------|--------------------|-------------------|------------------|
| Т | ST Parts No.: TB | 1328A | | |
| C | sustomer Parts No | 0.: | | |
| | | | | |
| | Customer signatur | | | |
| | Company: | | | |
| | Division: | | | |
| | Approved by :_ | | | |
| | Date: | | | |
| | | | | 1 100 |
| Checked by: | | Kazuma Lee | Cazum | A fee |
| Approval by: | | Andy Yu | Kasum | , An |
| Date: | | 04 / 11 / 2019 | | |

- 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.



TAI-SAW TECHNOLOGY CO., LTD.

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SAW Filter 38.2MHz 5MHz BW (SMD 7.0×5.0 mm)

MODEL NO.: TB1328A REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30 ℃ to 80 ℃

2. Storage temperature range: -40 °C to 85 °C

3. Input Power Level: 10 dBm

4. Maximum DC Voltage: 10V

5. Moisture Sensitivity Level: Level 1(MSL1)



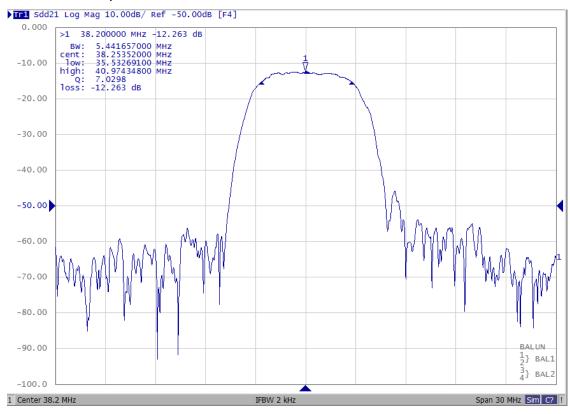
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

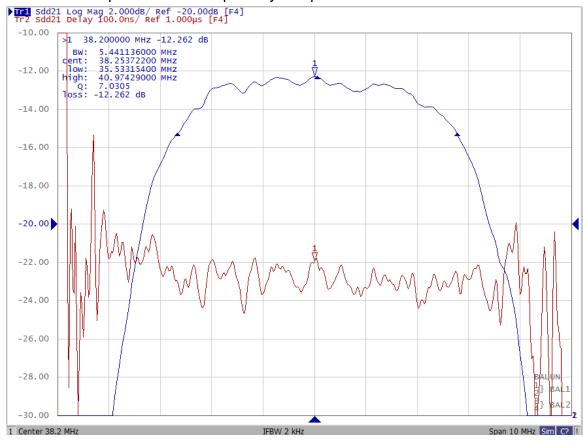
| ltem | Unit | Min. | Type. | Max. | | | | | |
|---|-------|------|-------|------|--|--|--|--|--|
| Center frequency, Fc | MHz | - | 38.2 | - | | | | | |
| Insertion Loss, IL | dB | - | 12.0 | 13.0 | | | | | |
| 3dB Bandwidth | MHz | 5.0 | 5.4 | - | | | | | |
| 30dB Bandwidth | MHz | - | 9.0 | 11.0 | | | | | |
| Passband Ripple Fc+/- 1.5MHz | dB | - | 0.9 | 1.3 | | | | | |
| Attenuation (Reference level from minimum Insertion loss) | | | | | | | | | |
| DC ~ 12.5MHz | dB | 40 | 48 | - | | | | | |
| 67.5MHz ~ 72.5MHz | dB | 40 | 48 | - | | | | | |
| 87.5MHz ~ 92.5MHz | dB | 40 | 47 | - | | | | | |
| Temperature Coefficient | ppm/℃ | - | -94 | - | | | | | |
| Source Impedance(Differential) | Ohm | - | 200 | - | | | | | |
| Load Impedance(Differential) | Ohm | - | 200 | - | | | | | |

C. FREQUENCY CHARACTERISTICS:

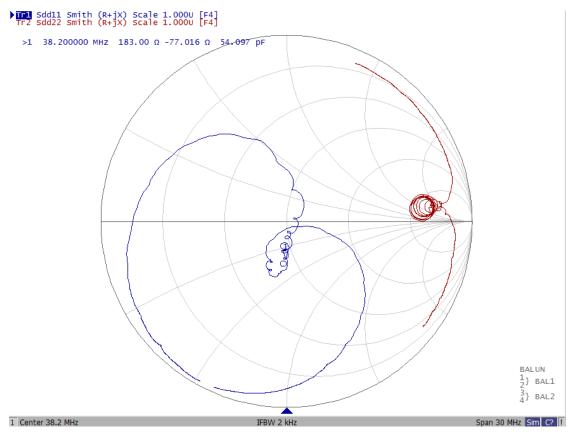
(1) Narrow band Response:



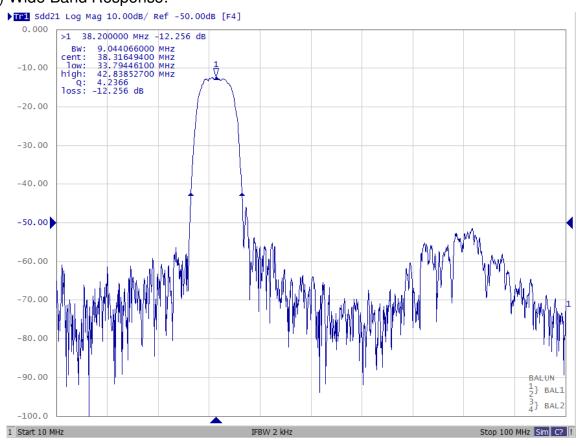
(2) Pass band Response and Group Delay Response:



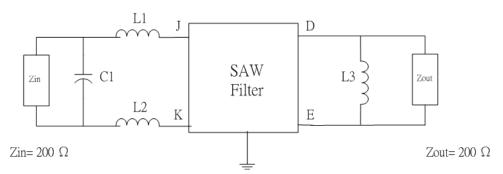
(3) Impedance:



(4) Wide Band Response:

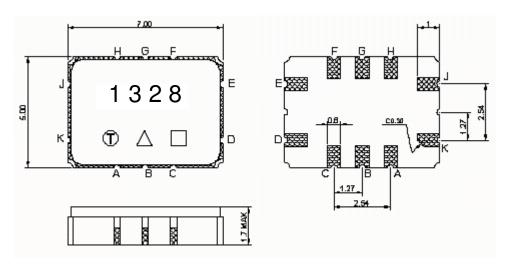


D. MATCHING CIRCUIT:



L1=L2=680nH+150nH C1=30pF L3=680nH+680nH

E. OUTLINE DRAWING:



Pin J –RF Input

Pin K -RF balance Input or to be ground

Pin D –RF output

Pin E -RF balance Output or to be ground

Pin A, B, C, F, G, H - Ground

: Week Code

Unit: mm

 \triangle : Product / Year Code: 4 year cycle

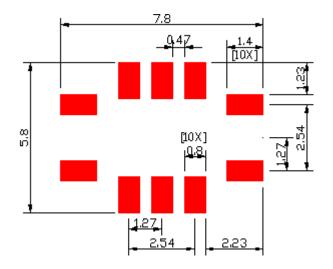
Product / Year Code

| Year | 2017 | 2018 | 2019 | 2020 |
|--------------|------|------|----------|----------|
| | 2021 | 2022 | 2023 | 2024 |
| Product Code | В | b | <u>B</u> | <u>b</u> |

Week Code Table

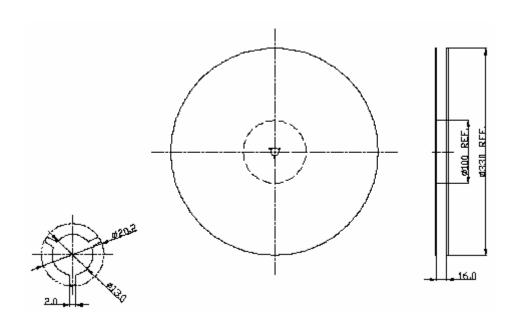
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Α | В | С | D | Е | F | G | Н | - 1 | J | K | L | М |
| WK14 | WK15 | WK16 | WK17 | WK18 | WK19 | WK20 | WK21 | WK22 | WK23 | WK24 | WK25 | WK26 |
| N | 0 | Р | Q | R | S | Т | U | V | W | Х | Υ | Z |
| WK27 | WK28 | WK29 | WK30 | WK31 | WK32 | WK33 | WK34 | WK35 | WK36 | WK37 | WK38 | WK39 |
| а | b | С | d | е | f | g | h | i | j | k | - 1 | m |
| WK40 | WK41 | WK42 | WK43 | WK44 | WK45 | WK46 | WK47 | WK48 | WK49 | WK50 | WK51 | WK52 |
| n | О | р | q | r | s | t | u | v | w | х | у | z |

F. PCB FOOTPRINT:

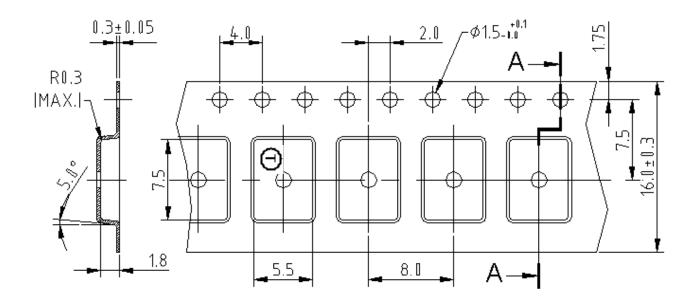


G. PACKING:

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°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.

