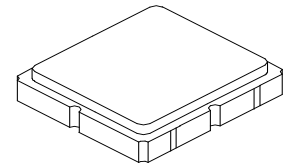


SF2673E

**860.5 MHz
SAW Filter**



SM3030-6

MAXIMUM RATING:

- Input Power Level: 18 dB_m
- DC voltage: 3 V
- Operating Temperature: -30°C to +70°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 1(MSL1)

ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typical | Max. |
|---|--------|------|---------|------|
| Center frequency Fc | MHz | - | 860.5 | - |
| Insertion loss 851 ~ 870 MHz IL | dB | - | 2.2 | 3.0 |
| Amplitude ripple 851 ~ 870 MHz | dB | - | 0.6 | 1.3 |
| Group delay ripple 851 ~ 870 MHz | ns | - | 12 | 60 |
| Attenuation (Reference level from 0 dB) | | | | |
| 0.000~806.000MHz | dB | 27 | 54 | - |
| 806.000~825.000MHz | dB | 37 | 54 | - |
| 896.000~902.000MHz | dB | 25 | 31 | - |
| 905.825~924.825MHz | dB | 27 | 40 | - |
| 960.650~979.650MHz | dB | 37 | 65 | - |
| 1070.300~1089.300MHz | dB | 47 | 65 | - |
| 1089.300~3000.000MHz | dB | 24 | 28 | - |
| Return loss 851 ~870 MHz | dB | 9.5 | 13 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -36 | - |
| Source impedance Zs | Ω | - | 50 | - |
| Load impedance ZL | Ω | - | 50 | - |

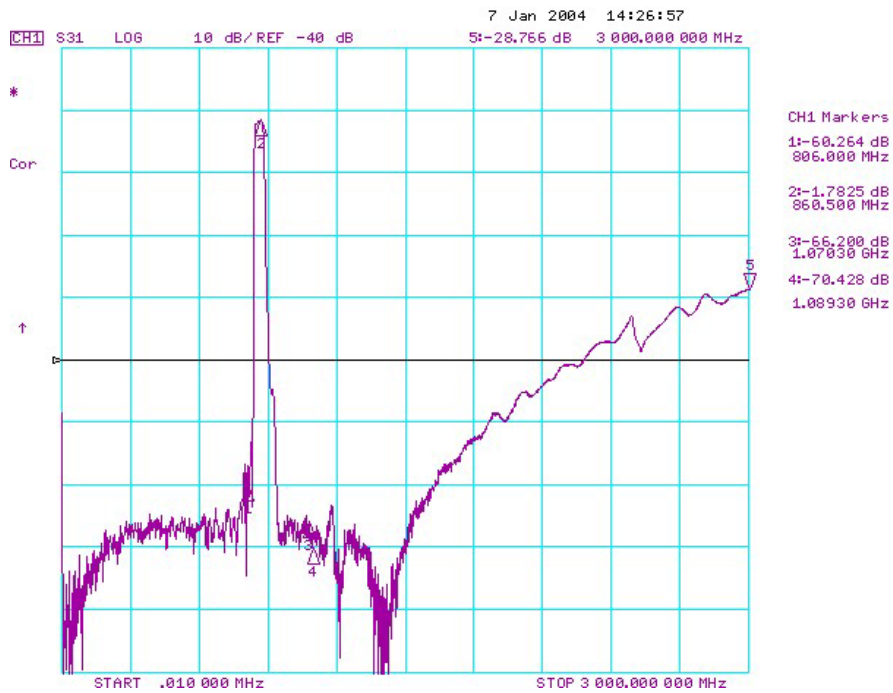
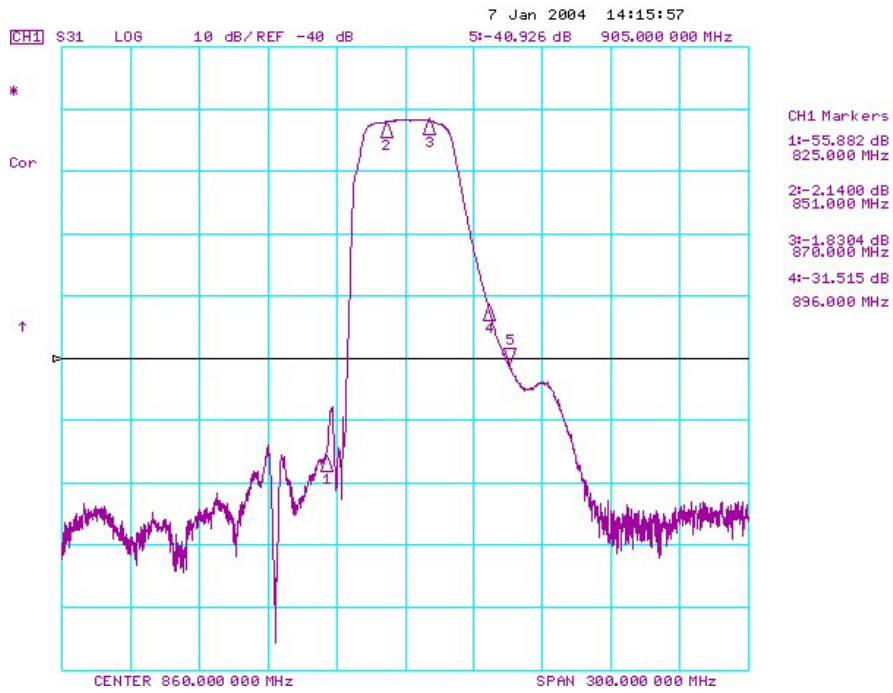
Note1. No matching network required for operation at 50 Ω



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

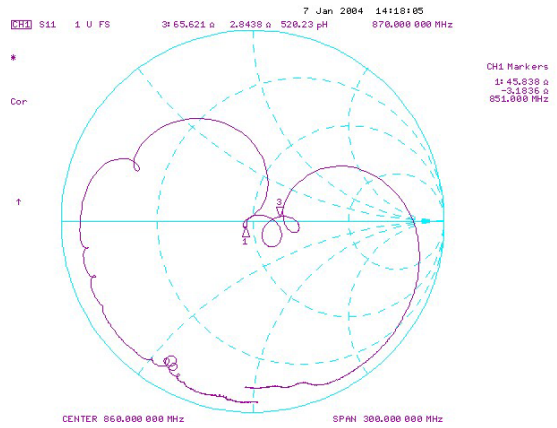
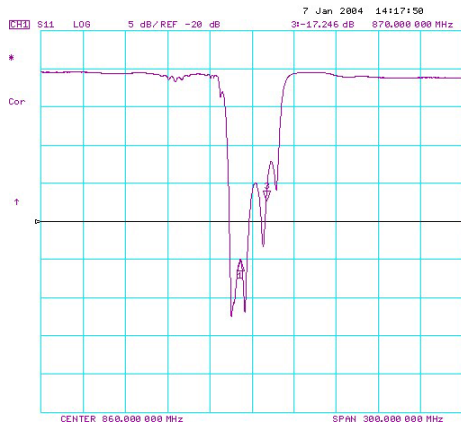
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics :

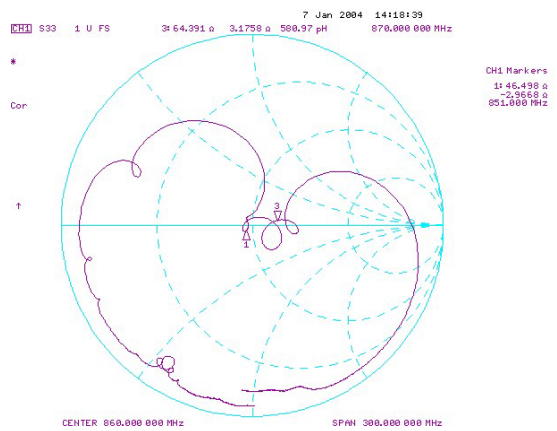
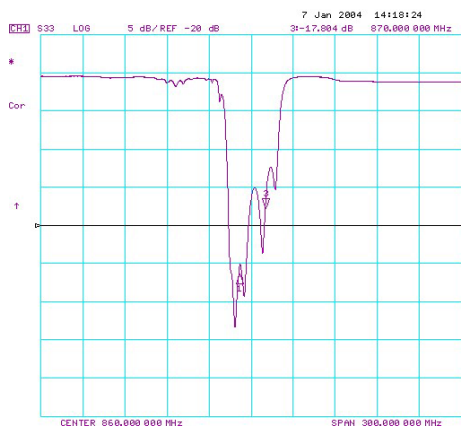


Reflections Functions :

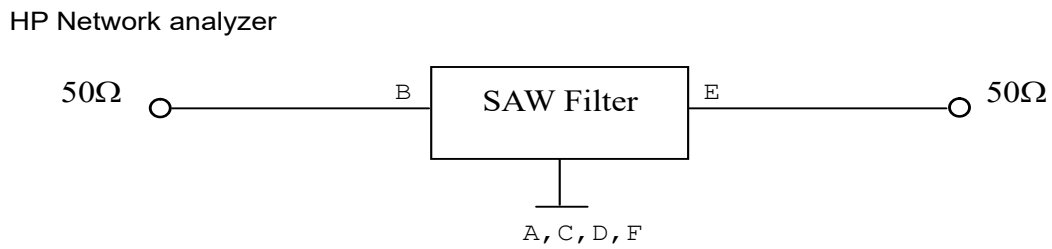
S11:



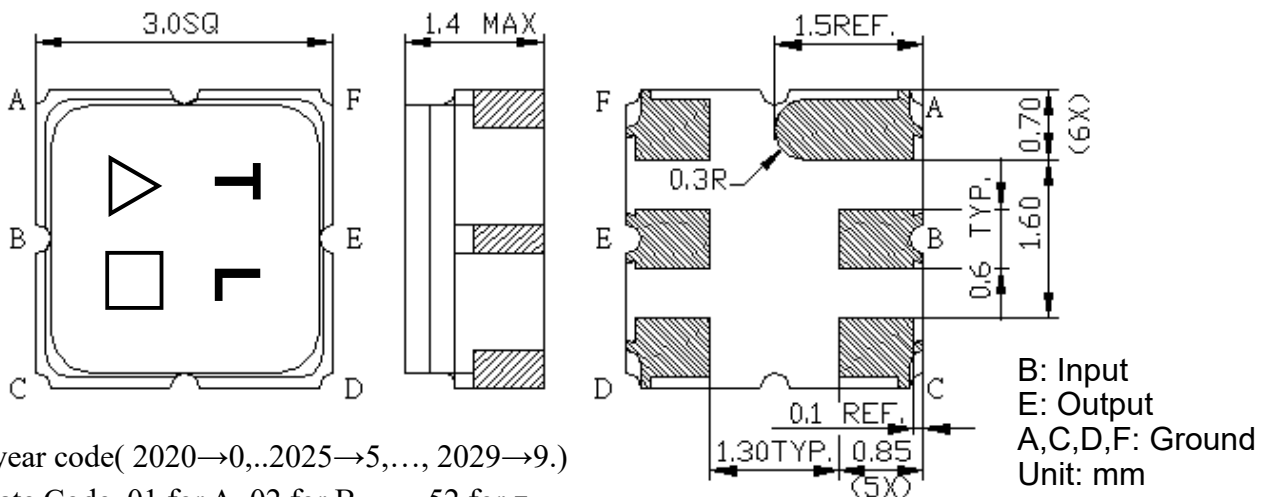
S22:



MEASUREMENT CIRCUIT:



OUTLINE DRAWING:



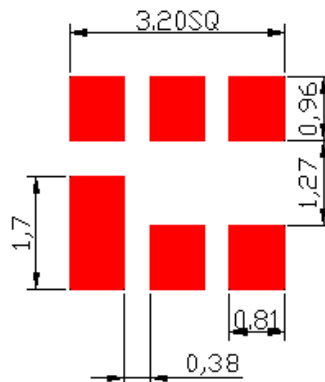
△ : year code(2020→0,..2025→5,..., 2029→9.)

□: Date Code. 01 for A, 02 for B ,,52 for z.

Date Code Table

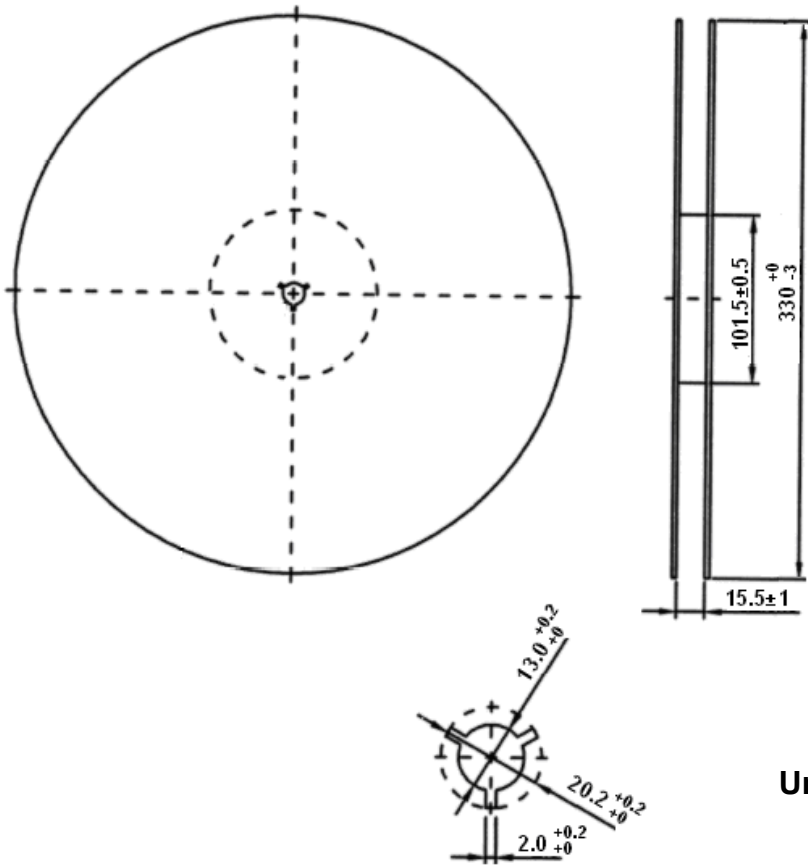
| Date Code Table | | | | | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| WK14 | 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 |

PCB Footprint:



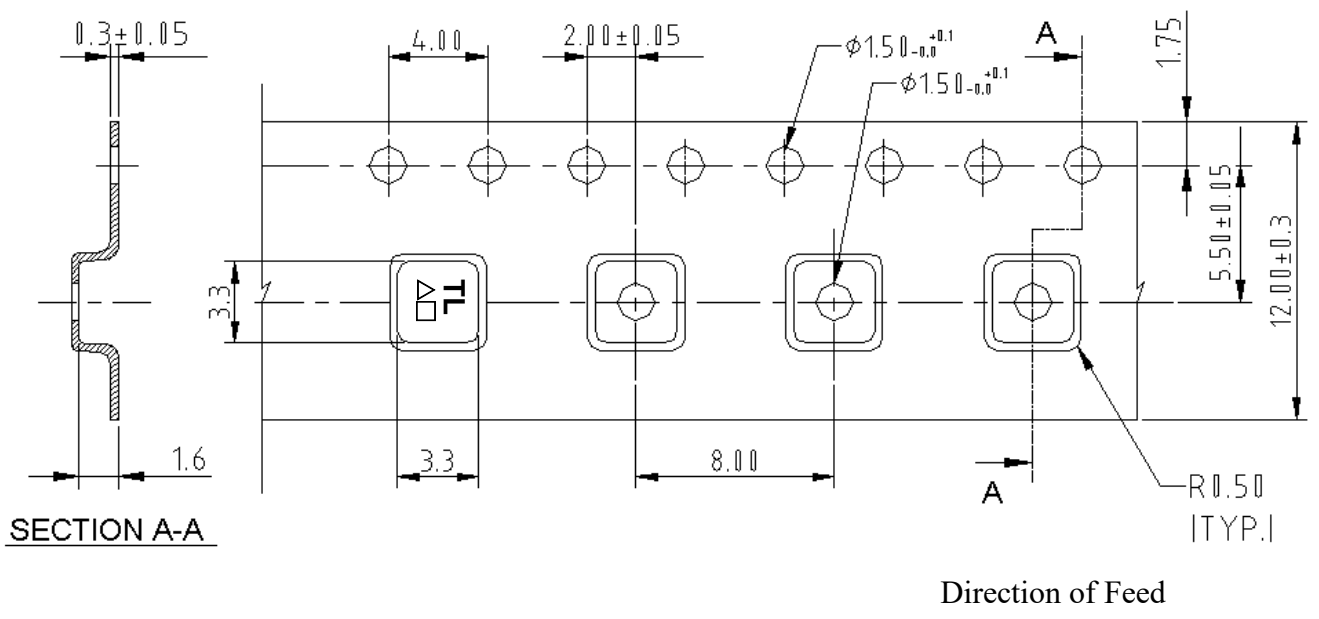
PACKING:
1. REEL DIMENSION

Reel Count:
7" = 500
13" = 3000



Unit: mm

2. TAPE DIMENSION



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.

