



SF2607LA

MAXIMUM RATING:

• Maximum Input Power: 10 dBm

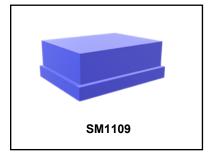
• DC voltage: +/-5 V

Operating Temperature: -40 °C to +85 °C
Storage Temperature: -40 °C to +100 °C
Moisture Sensitivity Level: Level 1 (MSL 1)

• ESD: 50 V(MM), 100 V(HBM)

AEC-Q200 Qualified

1950 MHz SAW Filter



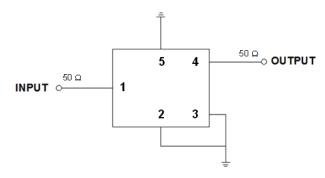
ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Zs = 50Ω (Single-ended)

Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

| Parameters Description | Unit | Min. | Тур. | Max. | | | | |
|---|-------------------|------|------|------|--|--|--|--|
| Center Frequency Fc | MHz | - | 1950 | - | | | | |
| Insertion Loss (1920~1980 MHz) | dB | - | 1.8 | 2.5 | | | | |
| Amplitude Ripple (1920~1980 MHz) | dB _{p-p} | - | 0.8 | 2.0 | | | | |
| VSWR (1920~1980 MHz) | - | - | 1.8 | 2.3 | | | | |
| Attenuation (Reference level from 0 dB) | | | | | | | | |
| DC ~ 1577 MHz | dB | 30 | 34 | ı | | | | |
| 1577 ~ 1880 MHz | dB | 22 | 29 | - | | | | |
| 2110 ~ 2170 MHz | dB | 35 | 38 | - | | | | |
| 2500 ~ 3120 MHz | dB | 28 | 33 | - | | | | |
| 3840 ~ 3960 MHz | dB | 25 | 29 | - | | | | |
| 5760 ~ 5940 MHz | dB | 15 | 22 | - | | | | |

MEASUREMENT CIRCUIT:

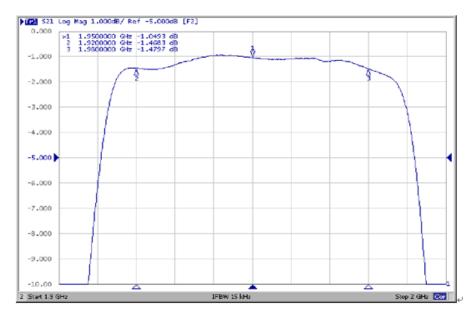


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

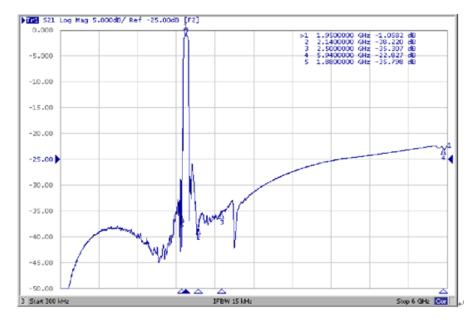


- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTIC:

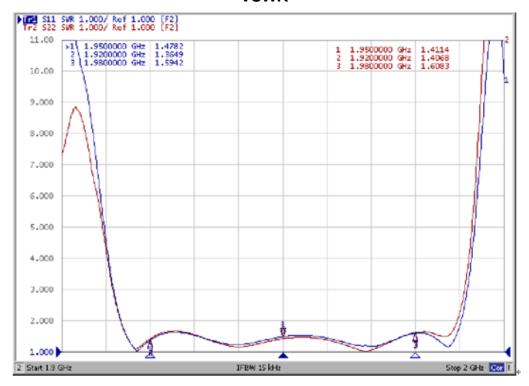




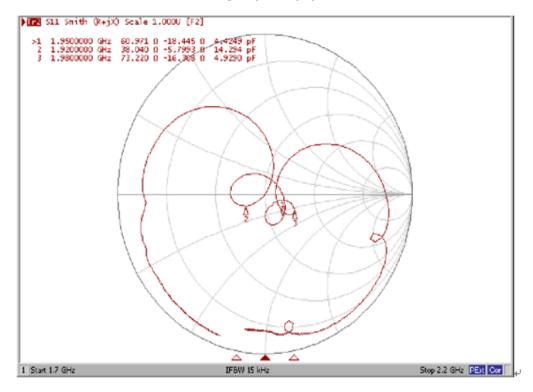


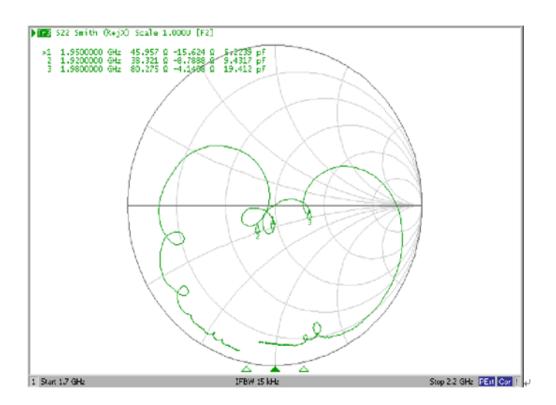
Reflection Functions:

VSWR

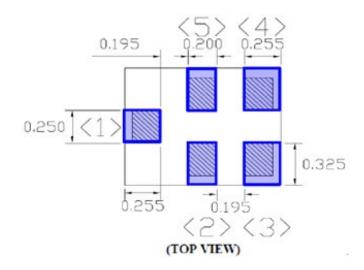


Smith Chart



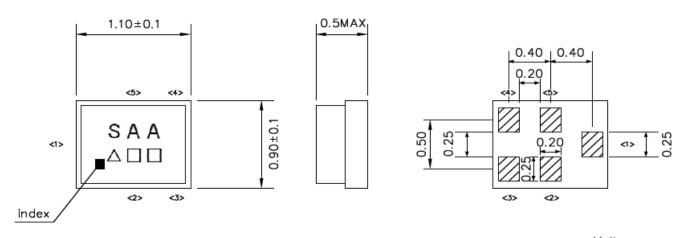


PCB Footprint:



OUTLINE DRAWING (Mass Production):

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



Unit: mm

Pin Configuration

| Pin No. | Symbol | Function | | |
|---------|--------|----------------|--|--|
| 1 | IN | Unbalanced pin | | |
| 2 | GND | Ground | | |
| 3 | GND | Ground | | |
| 4 | OUT | Unbalanced pin | | |
| 5 | GND | Ground | | |

△: Date Code

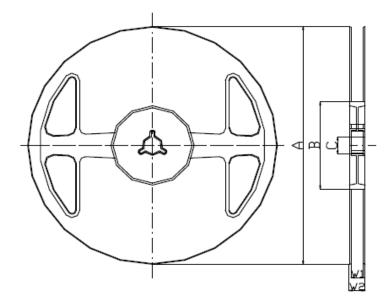
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and I)

Date Code:

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 2017 | Α | В | С | Ð | Е | F | G | Н | J | K | L | Μ |
| 2018 | Z | P | Ŋ | R | S | Т | U | ∇ | W | X | Υ | Z |
| 2019 | a | b | С | d | е | f | g | h | j | k | 1 | 3 |
| 2020 | n | р | q | r | s | t | u | > | w | х | у | Z |

PACKING

REEL DIMENSION



Materials of Reel

Material: Polvstvrene + Carbon

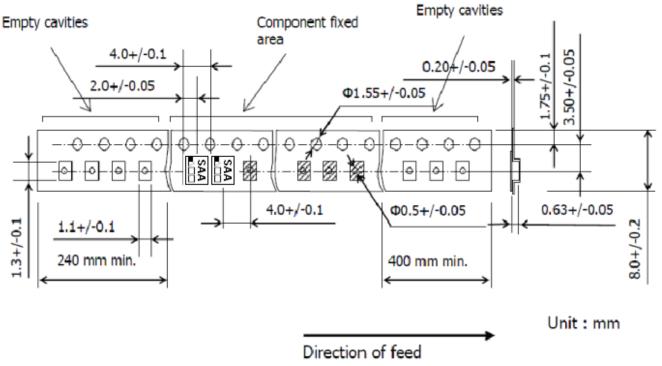
Color: Black

Surface resistance (reference value) : $10^9\Omega$ /sq Max.

Unit: mm

| Code | Quantity | Α | В | С | W1 | W2 |
|------|-----------|-------------------|---------------|---------------|---------------|-------------|
| J | 5,000 pcs | ф 180.0 +0.0/-1.5 | ф 66.0 +/-0.5 | φ 13.0 +/-0.2 | 9.0 +1.0/-0.0 | 11.4 +/-1.0 |

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.

