



SF2543LA

MAXIMUM RATING:

Maximum Input Power: 10 dBm

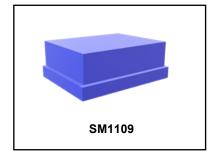
• DC voltage: +/-5 V

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

• ESD: 50 V(MM), 100 V(HBM)

AEC-Q200 Qualified

1732.5 MHz SAW Filter



ELECTRICAL CHARACTERISTICS:

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

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

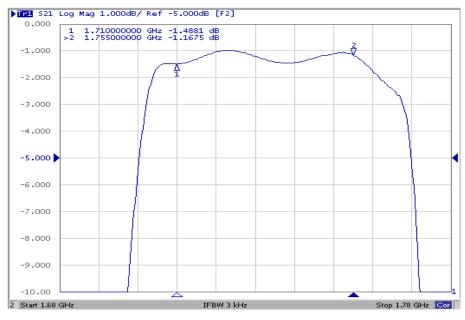
| Parameters Description | Unit | Min. | Тур. | Max. | | | | | |
|---|------|------------|------|--------|-----|--|--|--|--|
| Center Frequency F | С | MHz | - | 1732.5 | - | | | | |
| Insertion Loss (1710~1755 MHz) | IL | dB(*1) | - | 1.7 | 2.2 | | | | |
| Amplitude Ripple (1710~1755 MHz) | | dB_{p-p} | - | 0.7 | 1.4 | | | | |
| VSWR (1710~1755 MHz) | | - | - | 1.7 | 2.2 | | | | |
| Attenuation (Reference level from 0 dB) | | | | | | | | | |
| 50 ~ 1355 MHz | | dB | 30 | 35 | - | | | | |
| 1574 ~ 1577 MHz | | dB | 30 | 40 | - | | | | |
| 1600 ~ 1680 MHz | | dB | 18 | 26 | - | | | | |
| 1805 ~ 1880 MHz | | dB | 19 | 24 | - | | | | |
| 1930 ~ 1990 MHz | | dB | 25 | 35 | - | | | | |
| 2110 ~ 2170 MHz | | dB | 34 | 37 | - | | | | |
| 2200 ~ 2700 MHz | | dB | 20 | 33 | - | | | | |
| 2700 ~ 3800 MHz | | dB | 20 | 29 | - | | | | |
| 3800 ~ 6000 MHz | | dB | 10 | 21 | - | | | | |

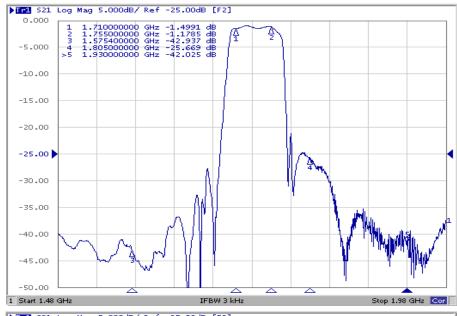
^(*1) Specification of insertion loss includes loss that comes from the test board.

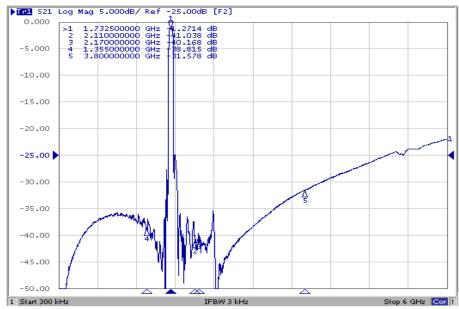
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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:

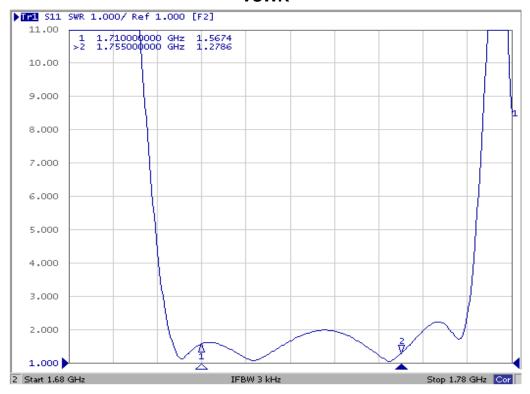


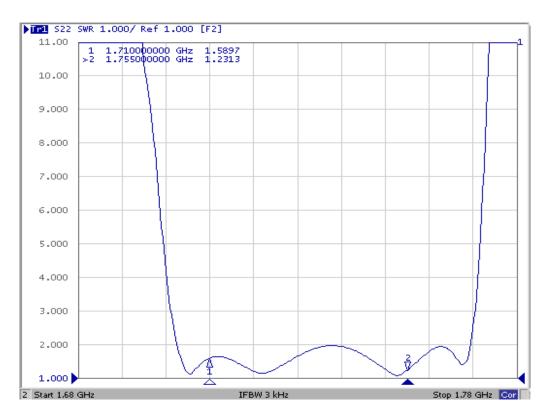




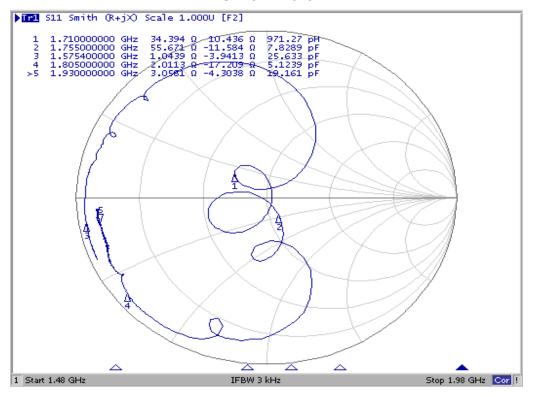
Reflection Functions:

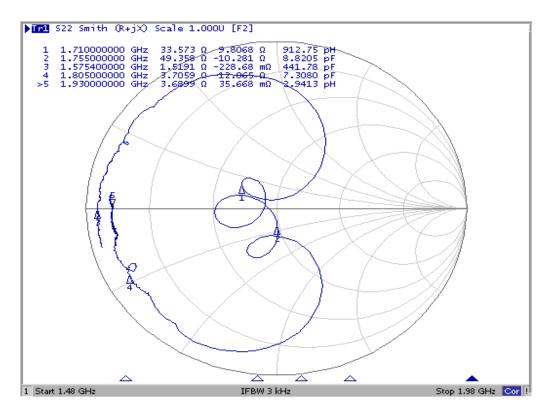
VSWR



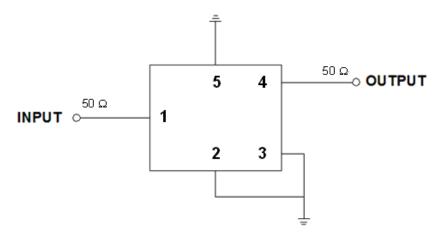


Smith Chart

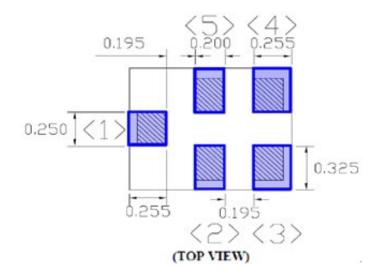




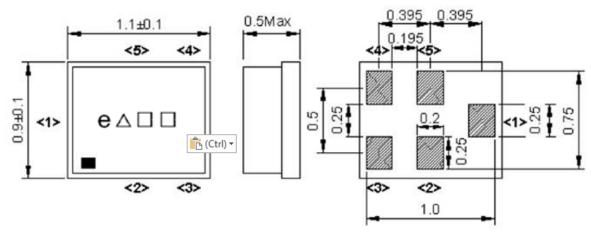
MEASUREMENT CIRCUIT:



PCB Footprint:



OUTLINE DRAWING:



Not Specified Tolerance: +/-0.1 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

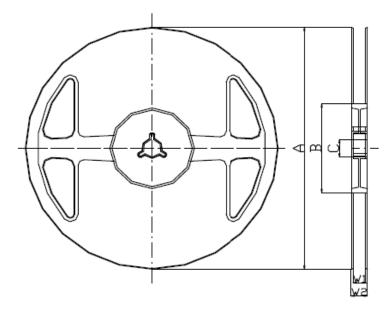
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and I)

Date Code:

| Year | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| 2015 | а | b | С | d | е | f | g | h | j | k | | m |
| 2016 | n | р | q | r | s | t | a | V | W | X | У | z |
| 2017 | Α | В | O | D | E | F | G | Н | J | K | L | M |
| 2018 | N | Ρ | Ø | R | S | Т | ٥ | ∇ | W | X | Υ | Z |

PACKING

REEL DIMENSION Reel Count: 7" = 5000 13" = 10,000



Materials of Reel

Material: Polystyrene + Carbon

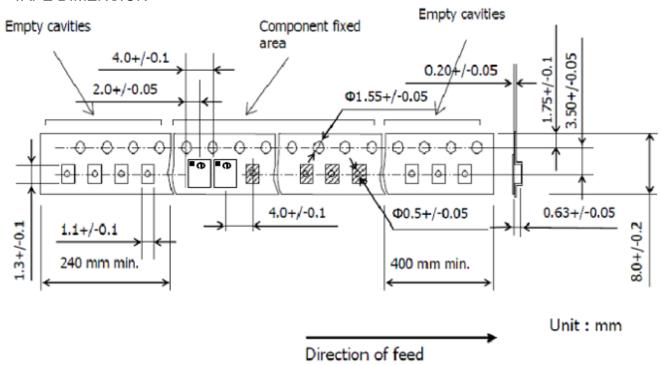
Color: Black

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

Unit: mm

| A B | | С | W1 | W2 | |
|-------------------|---------------|---------------|---------------|-------------|--|
| ф 180.0 +0.0/-1.5 | φ 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.

