



**THE DATASHEET OF
SF2330K**



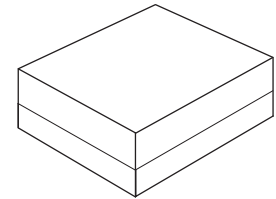
- **Miniature High Performance SAW Filter**
- **Low Passband Loss**
- **Hermetic 1.4 x 1.1 mm Surface-mount Case**
- **Complies with Directive 2002/95/EC (RoHS)**
- **Moisture Sensitivity Level: 2A**

Absolute Maximum Ratings

| Rating | Value | Units |
|---|------------|-------|
| Maximum Input Power Level 25 kHRS@+55°C | 17 | dBm |
| Maximum Input Power Level 22 kHRS@+55°C | 18 | dBm |
| Maximum Input Power Level 4 kHRS@+55°C | 24 | dBm |
| DC Voltage | 5 | VDC |
| Operating Temperature | -10 to +70 | °C |
| Storage Temperature | -40 to +85 | °C |

SF2330K

**1890 MHz
SAW Filter**



SM1411-5

Electrical Characteristics

| Characteristic | Sym | Notes | Min | Typ | Max | Units |
|--|------------------|-------|-------------|-----|-----|----------|
| Center Frequency | f_c | | 1890 | | | MHz |
| Insertion Loss, 1881.792 to 1897.344 MHz | IL_{MAX} | | | 2.2 | 3.5 | dB |
| VSWR (1881.792 to 1897.344 MHz) | | | | 1.6 | 2.3 | |
| Terminating Source Impedance | Z_S | | | 50 | | Ω |
| Terminating Load Impedance | Z_L | | | 50 | | |
| Amplitude Ripple, 1881.792 to 1897.344 MHz | | | | 0.8 | 2.2 | dB |
| Attenuation (Reference level from 0 dB) | | | | | | dB |
| | 10 to 1600 MHz | | 30 | 36 | | |
| | 1600 to 1830 MHz | | 30 | 35 | | |
| | 1920 to 1980 MHz | | 25 | 38 | | |
| 2730 to 2820 MHz | | | 30 | 40 | | |
| Package Size | | | SMD 1.4x1.1 | | | mm |
| Lid Symbolization | | | <u>2</u> | | | |



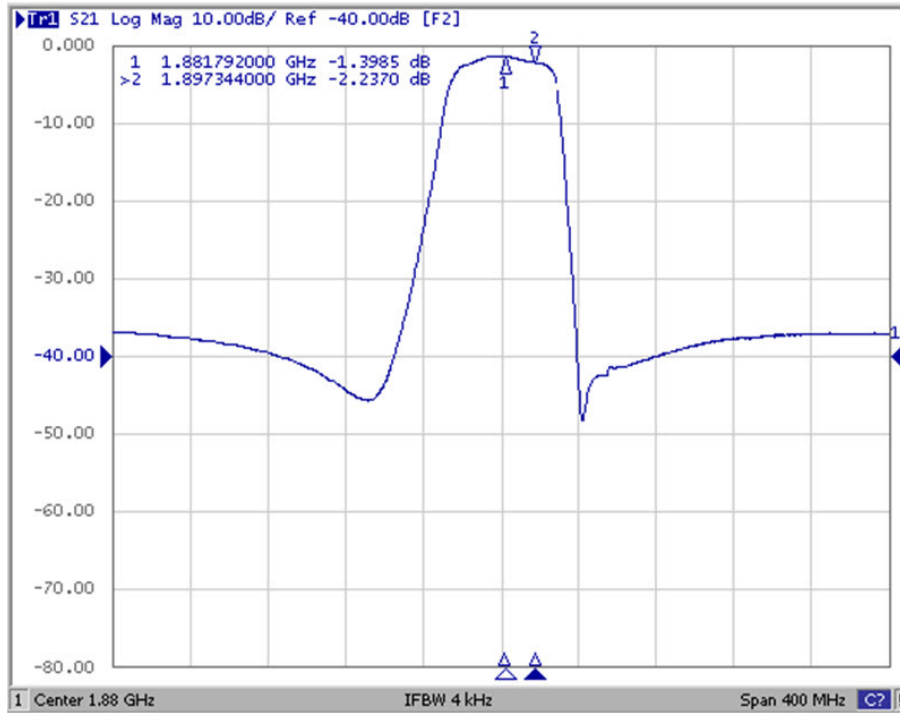
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

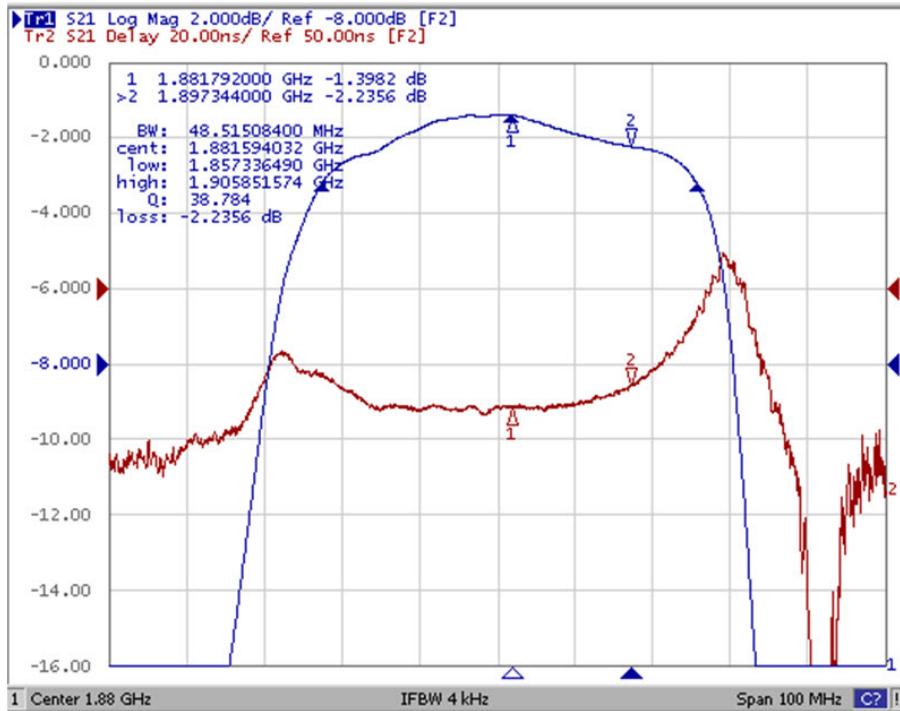
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics:

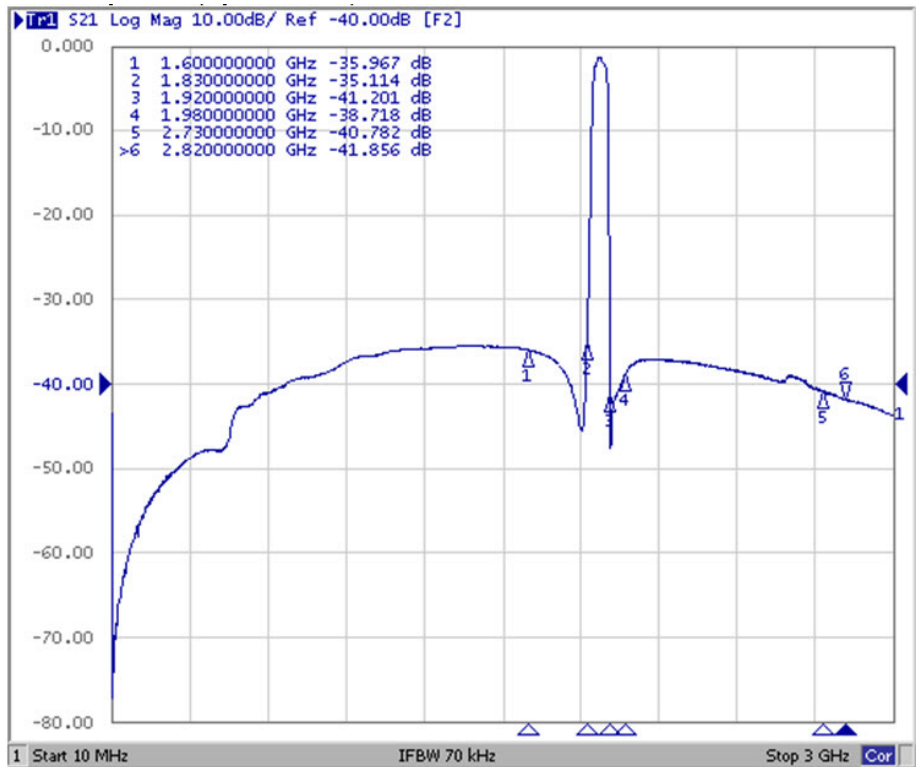
S21 Response (span 400 MHz)



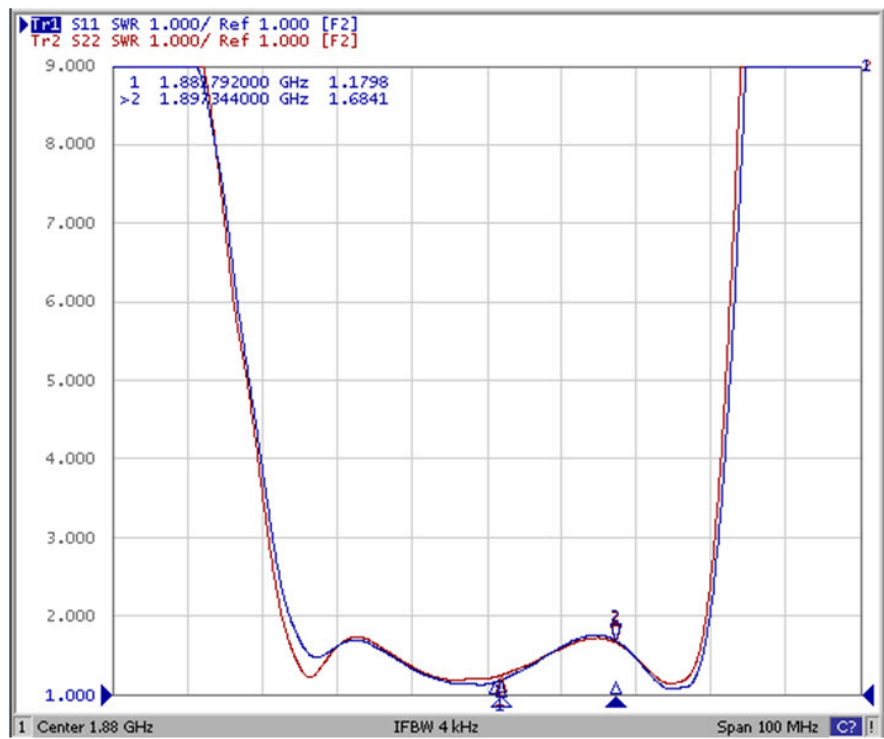
S21 Response (span 100 MHz)



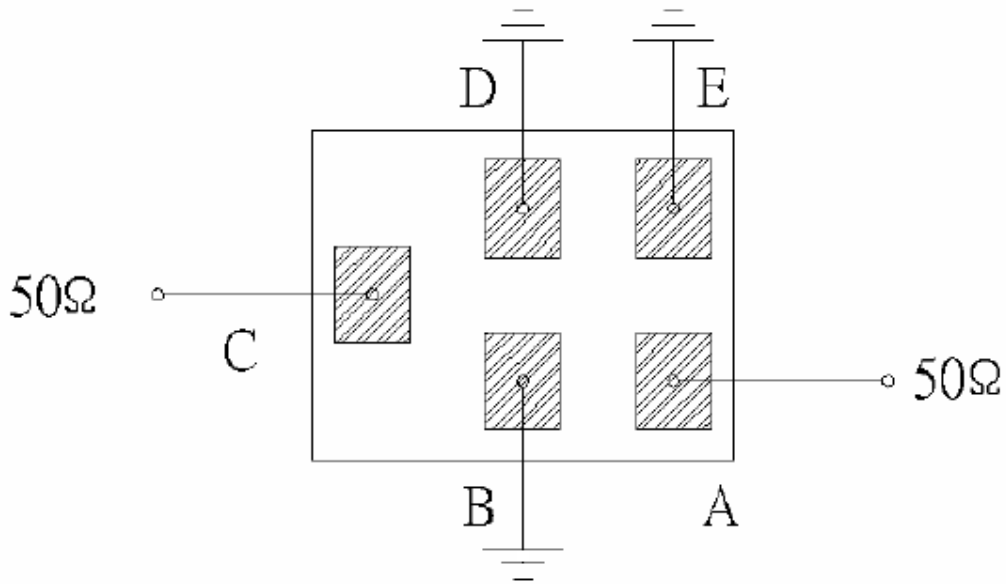
S21 Response (span 3GHz)



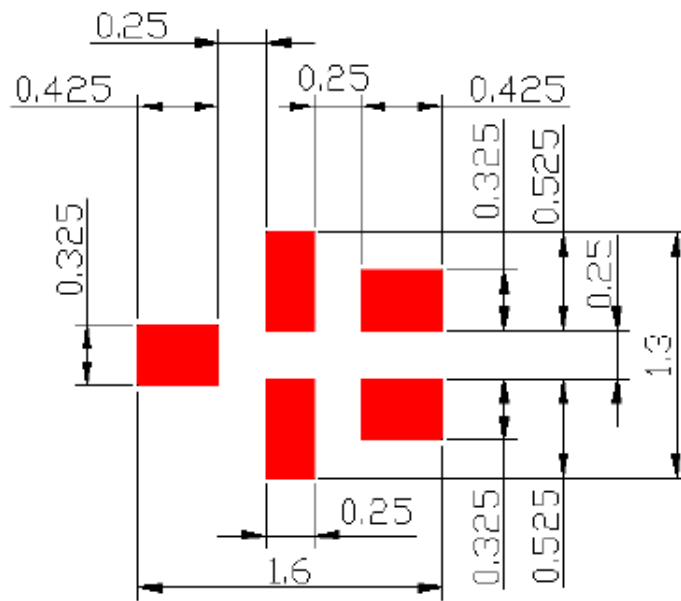
S11 and S22 Response (span 100 MHz)



Measurement Circuit:

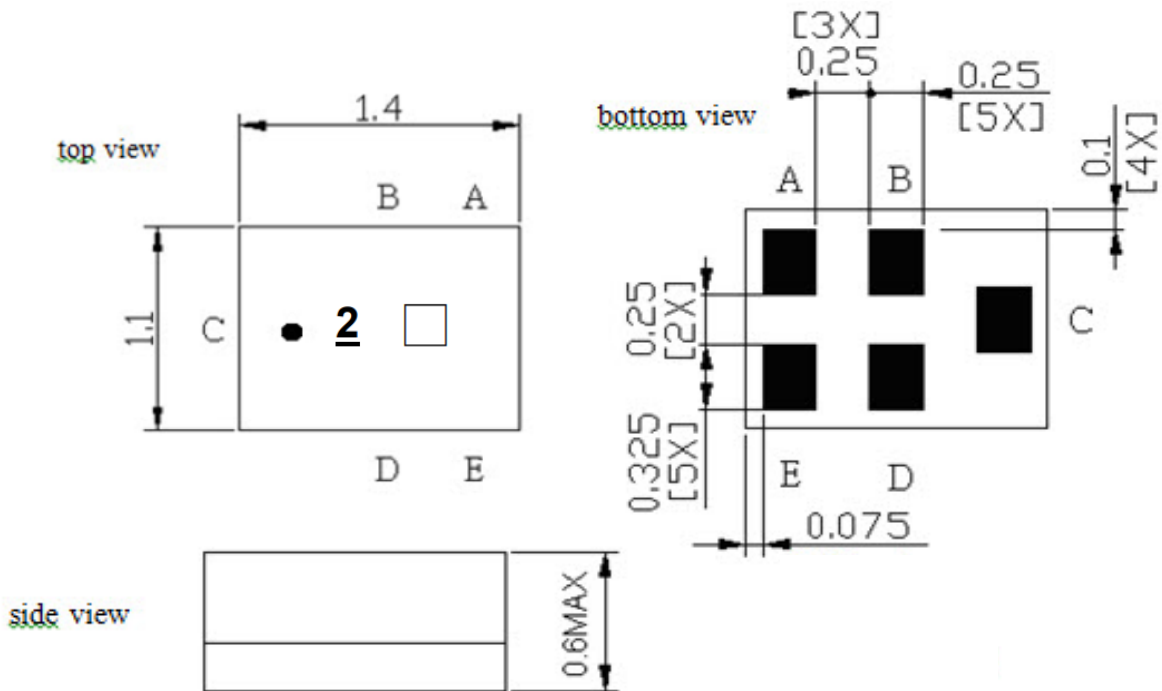


PCB Footprint :



: Land Pattern
 Unit : mm

Outline Drawing:

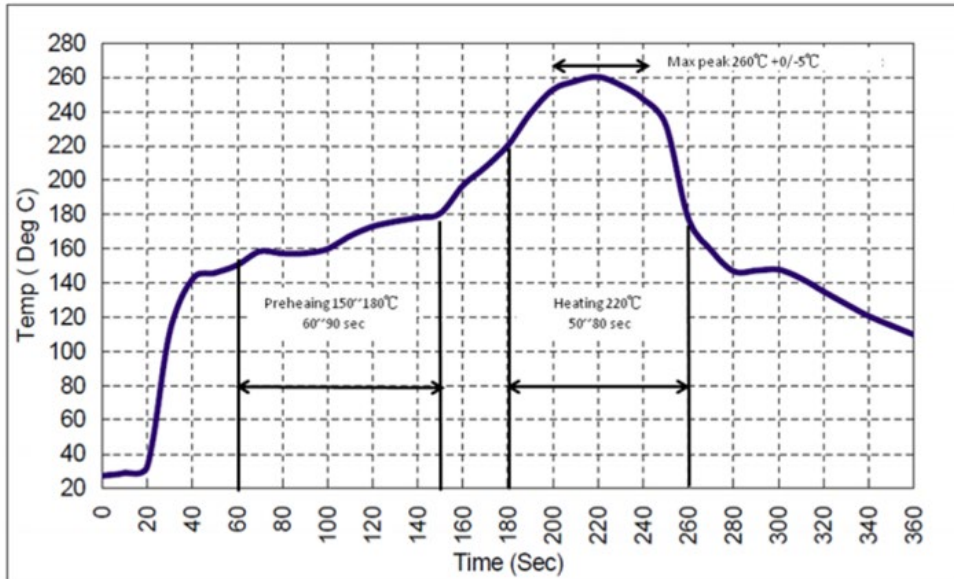


□ : Year/Month Code (Follow the table)

| YEAR/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|
| 2013 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2014 | N | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2015 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2016 | n | p | q | r | s | t | u | v | w | x | y | z |
| 2017 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2018 | N | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2019 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2020 | n | p | q | r | s | t | u | v | w | x | y | z |

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 (10 seconds).
4. Time: 5 times maximum.



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 [RF Monolithics, Inc Information](#)

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