



# **DATASHEET**

## **of SAW Devices**

### **SAW Resonator**

Part Number: SXR299M000BS07

Center Frequency: 299.000MHz

Package: SMD3070

- Package Dimensions
- Testing Environment
- Electrical Characteristics
- Frequency Characteristics

|                |                |
|----------------|----------------|
| SAW Components | SAW Resonator  |
| Part Number    | SXR299M000BS07 |

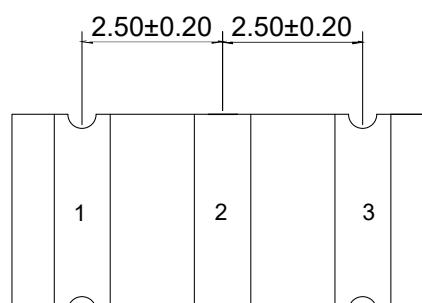
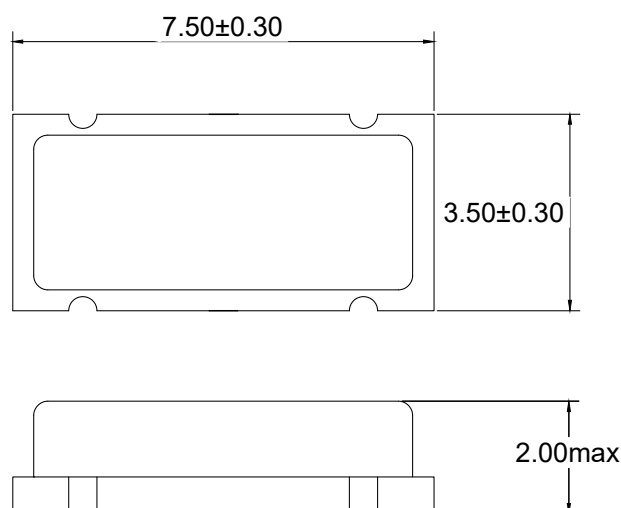
Revision Record

| Revision Number       | Date       | Description  |
|-----------------------|------------|--------------|
| SXR299M000BS07_Rev1.0 | 2023-03-22 | Revision 1.0 |
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## 1. Features

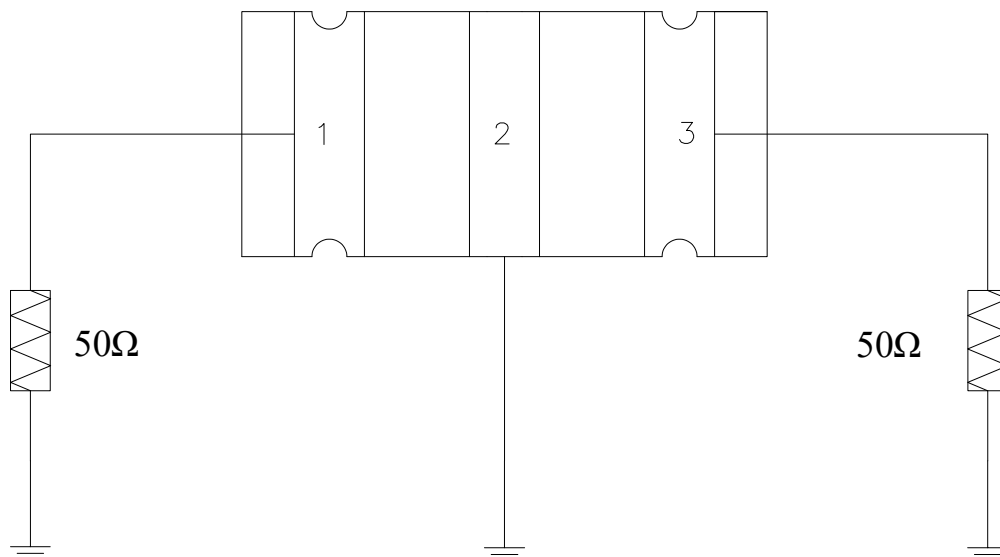
- 1-port SAW resonator
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and RoHS Compliant
- Electrostatic Sensitive Device(ESD)
- Moisture Sensitivity Level 2

## 2. Package Dimension(Unit: mm)



| Pin No. | Function     |
|---------|--------------|
| 1       | Input/Output |
| 2       | Ground       |
| 3       | Output/Input |

### 3. Measurement Circuit



### 4. Maximum Ratings

| Rating                      |                  | Value     | Unit |
|-----------------------------|------------------|-----------|------|
| RF Input Power              | P                | 10        | dBm  |
| DC Voltage                  | V <sub>DC</sub>  | 10        | V    |
| Operating Temperature Range | T <sub>A</sub>   | -40 ~ +85 | °C   |
| Storage Temperature Range   | T <sub>stg</sub> | -45 ~ +85 | °C   |
| ESD Voltage(MM)             | V <sub>MM</sub>  | 50        | V    |
| ESD Voltage(HBM)            | V <sub>HBM</sub> | 175       | V    |

### 5. Electrical Specification

| Item             | Frequency Range       | Characteristics |                   |         |      |
|------------------|-----------------------|-----------------|-------------------|---------|------|
|                  |                       | min.            | typ. <sup>1</sup> | max.    | Unit |
| Center Frequency | Absolute Frequency    | 298.925         | 299.0             | 299.075 | MHz  |
|                  | Tolerance from 299MHz | -               | ±75               | -       | kHz  |
| Insertion Loss   | Min.                  | -               | 1.5               | 2.2     | dB   |
| Anti-resonance   | -                     | 24              | 25                | -       | dB   |

1. Typical value at 25±2deg.C

## 6. Typical Frequency Characteristic

