



# **DATASHEET**

## **of SAW Devices**

### **SAW Resonator**

Part Number: SXR304M250AS06

Center Frequency: 304.250MHz

Package: SMD5050

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

|                |                |
|----------------|----------------|
| SAW Components | SAW Resonator  |
| Part Number    | SXR304M250AS06 |

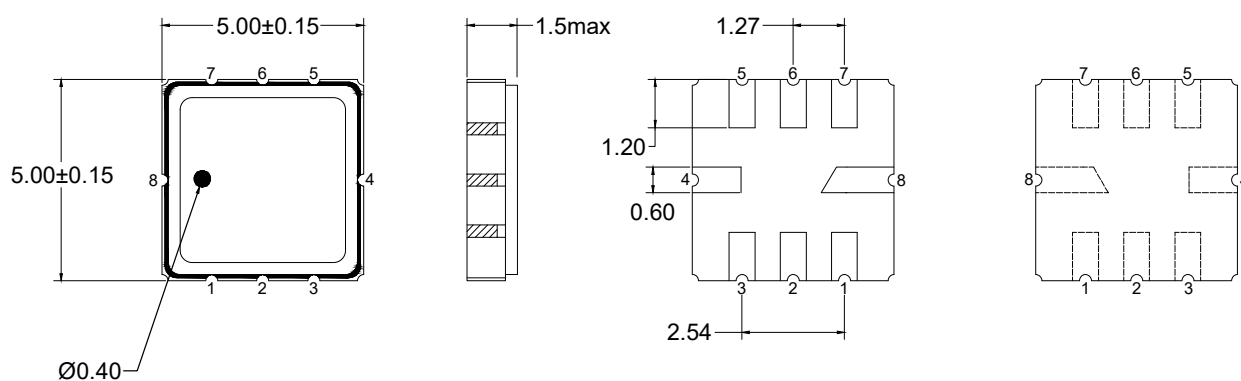
### Revision Record

| Revision Number       | Date       | Description  |
|-----------------------|------------|--------------|
| SXR304M250AS06_Rev0.1 | 2023-05-10 | Reversion1.0 |
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|                       |            |              |
|                       |            |              |

## 1. Features

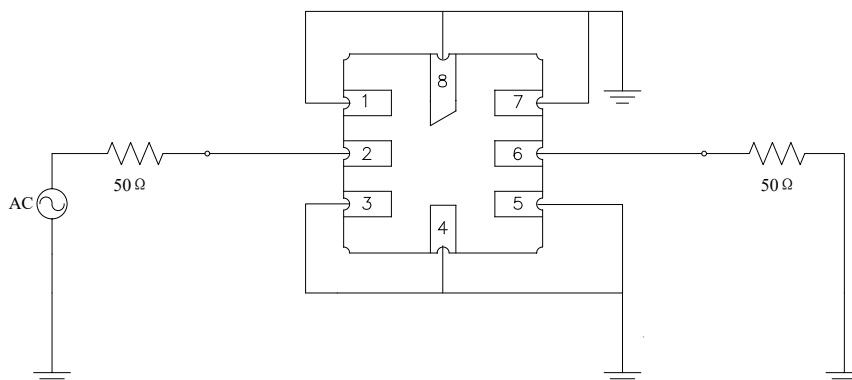
- 1-port SAW resonator
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and RoHS Compliant
- Electrostatic Sensitive Device(ESD)
- Moisture Sensitivity Level 2

## 2. Package Dimension(Unit: mm)



| Pin Configuration |              |
|-------------------|--------------|
| 2                 | Input/Output |
| 6                 | Output/Input |
| 1, 3, 5, 7        | To Be Ground |
| 4, 8              | Case Ground  |

### 3. Measurement Circuit



### 4. Maximum Rating

| 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> | -40 ~ +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        | 304.175         | 304.250           | 304.325 | MHz  |
|                  | Tolerance from 304.250MHz | -               | ±75               | -       | kHz  |
| Insertion Loss   | Min.                      | -               | 1.5               | 2.2     | dB   |
| Anti-resonance   | -                         | 24              | 25                | -       | dB   |

1. Typical value at 25±2deg.C

## 6. Frequency Characteristics

