

# SJK AW Series

## 3.2×2.5×0.68mm SMD SAW Resonators



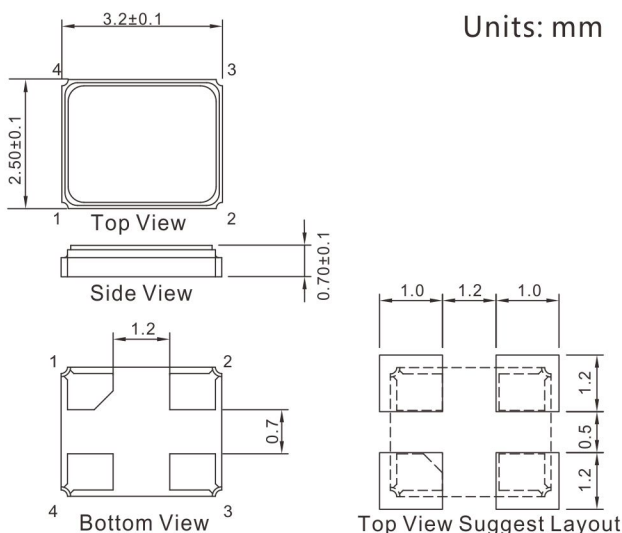
### Features

- 1-port resonator.
- Size 3.2×2.5×0.68mm, the smallest SMD package.
- Very low cost than other SMD packages.
- Electrostatic Sensitive Device(ESD).
- Other frequency available.
- Used for Automotive Electronics & Remote Control.
- RoHS Compliant.

### Electrical Specifications

| Item  |                                      |              | Minimum     | Type      | Maximum | Unit   |
|---|--------------------------------------|--------------|-------------|-----------|---------|--------|
| Center Frequency                              | Absolute Frequency                   | $F_c$        | 315, 433.92 |           |         | MHz    |
|   | Tolerance form 433.92MHz             | $\Delta F_c$ |             | $\pm 75$  |         | KHz    |
| Insertion Loss (Min.)                         |                                      | IL           |             | 1.5       | 2.0     | dB     |
| Quality Factor                                | Unloaded Q                           | $Q_u$        |             | 18362     |         |        |
|   | 50Ω loaded Q                         | $Q_L$        |             | 2150      |         |        |
| Temperature Stability                         | Turnover temperature                 | $T_0$        | 20          | 40        | 55      | °C     |
|   | Turnover frequency                   | $F_0$        |             | $F_c$     |         |        |
|   | Frequency temperature coefficient    | FTC          |             | 0.032     |         | ppm/°C |
| Frequency Aging                               | Absolute value during the first year | $ F_A $      |             | $\leq 10$ |         | ppm/yr |
| DC Insulation Resistance between Any Two Pins |                                      |              | 1.0         |           |         | MΩ     |
| RF Equivalent RLC Model                       | Motional Resistance                  | $R_M$        |             | 13.2      | 18.0    | Ω      |
|   | Motional Inductance                  | $L_M$        |             | 89.4      | 110.2   | μH     |
|   | Motional Capacitance                 | $C_M$        |             | 1.5       |         | fF     |
|   | Static Capacitance                   | $C_0$        | 1.45        | 1.75      | 2.05    | pF     |
| Operating Temperature Range                   |                                      | T            | -40         |           | +85     | °C     |
| Storage Temperature Range                     |                                      | $T_{stg}$    | -55         |           | +125    | °C     |

### Package and Recommended Solder Pad



For more detail, Please contact us:

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