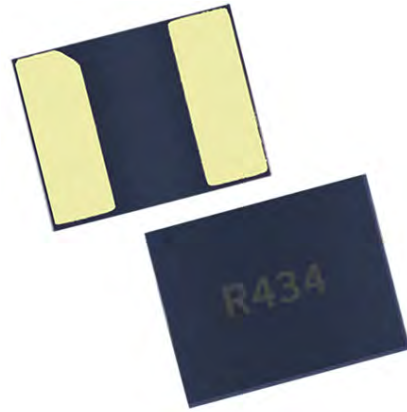


### Features

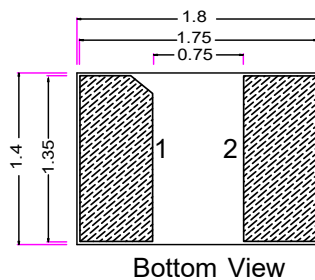
- 1-Port Resonator
- CSP Package for SMT
- Package Size 1.8x1.4x0.9 mm
- Electrostatic Sensitive Device
- Application: Automotive Electronics, Remote Control, Security Alarm, etc.
- RoHS Compliant & Pb Free



### Standard Specifications

| Item / Type                                   |                                      | Minimum                 | Typical | Maximum | Unit   |
|---|--------------------------------------|-------------------------|---------|---------|--------|
| Center Frequency                              | Absolute Frequency                   | 315, 433.92, or specify |         |         | MHz    |
|   | Frequency Tolerance                  |                         | ±100    |         | kHz    |
|   | Insertion Loss (Min.)                |                         | 1.3     | 2.2     | dB     |
| Quality Factor                                | Unloaded Q                           |                         | 12000   |         |        |
|   | 50Ω loaded Q                         |                         | 1500    |         |        |
| Temperature Stability                         | Turnover Temperature                 | 10                      | 25      | 40      | °C     |
|   | Turnover Frequency                   |                         | $F_c$   |         |        |
|   | Frequency Temperature Coefficient    |                         | 0.032   |         | ppm/°C |
| Frequency Aging                               | Absolute Value During The First Year |                         | ≤10     |         | ppm/yr |
| DC Insulation Resistance Between Any Two Pins |                                      | 1.0                     |         |         | MΩ     |
| RF Equivalent RLC Model                       | Motional Resistance                  |                         | 12.196  | 18.0    | Ω      |
|   | Motional Inductance                  |                         | 183.82  | 110.2   | μH     |
|   | Motional Capacitance                 |                         | 0.733   |         | fF     |
|   | Static Capacitance                   | 1.45                    | 2.23    | 2.05    | pF     |
| Operating Temperature                         |                                      | -40                     |         | +85     | °C     |
| Storage Temperature                           |                                      | -55                     |         | +125    | °C     |
| DC Voltage                                    |                                      |                         | 10      |         | V      |

### Dimensions [mm]



| Pin | Function     |
|-----|--------------|
| 1   | Input/Output |
| 2   | Output/Input |

