

### For Keyless Entry System

## SAW RESONATOR FOR REMORT KEYLESS ENTRY SYSTEM

This is resonator for keyless entry system.

#### ■ Features

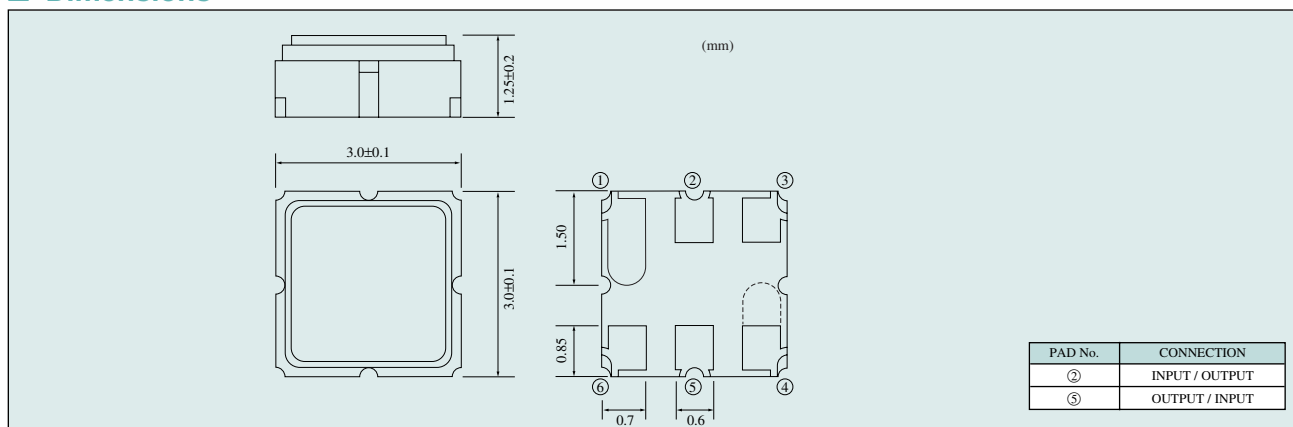
- Low insertion loss and low equivalent series resistance.
- Compactness (3 × 3 × 1.25mm)



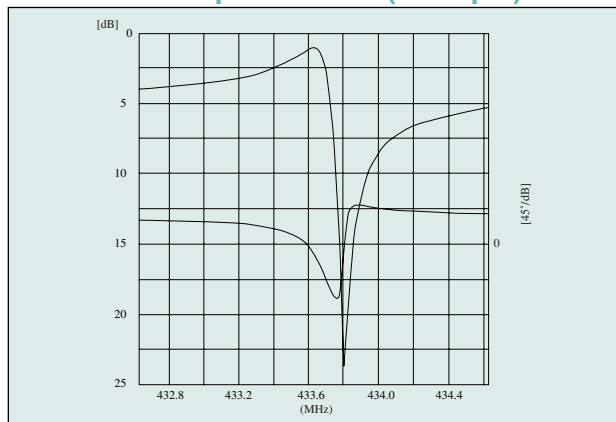
#### ■ Specification

| Item  | Model                                 | WR703B  |         |        |
|---|---------------------------------------|---------|---------|--------|
|   |                                       | Min.    | Typ.    | Max.   |
| Center frequency (MHz)<br>(at center frequency of 0.5 dB bandwidth) |                                       | 433.345 | 433.420 | 433.49 |
| Min. insertion loss $\alpha$ min (dB)                               |                                       |         | 1.8     | 2.2    |
| Equivalent circuit elements   | Motional capacitance : C1 [fF]        |         | 1.2     |        |
|   | Motional inductance : L1 [ $\mu$ H]   |         | 14.7    |        |
|   | Motional resistance : R1 [ $\Omega$ ] |         | 21.8    |        |
|   | Parallel capacitance : C0 [pF]        |         | 1.5     |        |
|   | Unloaded quality factor : Q           |         | 12000   |        |
| Operating temp. range (°C)  |                                       | -40     |         | + 85   |

#### ■ Dimensions



#### ■ Resonator specification (example)



#### ■ Matching circuit

