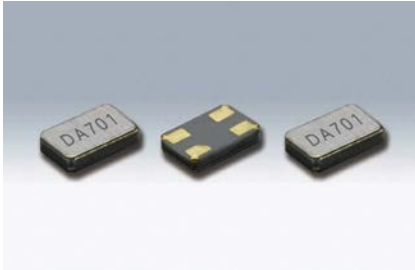


# SMD Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

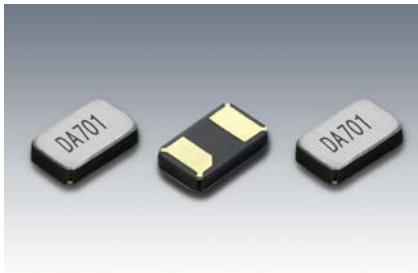
## DST1610A/DST1610AL/DST210AC



DST1610A



DST1610AL



DST210AC

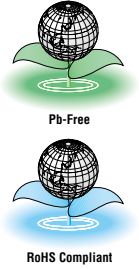
Actual size □

Actual size □

Actual size □

### Features

- Ultra miniature SMD tuning fork crystal resonator  
DST1610A: 1610size height 0.5mm max.  
DST1610AL: 1610size height 0.35mm max.  
DST210AC: 2012size height 0.55mm max.
- A ceramic package with a metal lid providing high precision and reliability.
- Series Resistance 50kΩ max. available (DST1610A).
- Metal lid connected to GND terminal to reduce EMI (DST1610AL).
- Suitable for mobile communications and consumer devices.
- AEC-Q200 Compliant (DST210AC)



### Applications

- Mobile communications and consumer devices, etc.
- Smart card and Wearable devices (DST1610AL).

### Standard Specification

| Item                        | Type | DST1610A                                     | DST1610AL  | DST210AC   |
|-----------------------------|------|--|------------|------------|
| Frequency Range             |      | 32.768kHz                                    |            |            |
| Load Capacitance            |      | 6pF, 7pF, 9pF, 12.5pF                        |            |            |
| Drive Level                 |      | 0.1 μW (0.5 μW max.)                         |            |            |
| Frequency Tolerance         |      | ±20×10 <sup>-6</sup> (at 25°C)               |            |            |
| Series Resistance           |      | 50kΩ max.                                    | 80kΩ max.  |            |
| Turnover Temperature        |      | +25°C ±5°C                                   |            |            |
| Parabolic Coefficient       |      | -0.04×10 <sup>-6</sup> /°C <sup>2</sup> max. |            |            |
| Operating Temperature Range |      | -40 to +85°C                                 |            |            |
| Storage Temperature Range   |      | -40 to +85°C                                 |            |            |
| Shunt Capacitance           |      | 1.7pF typ.                                   | 1.3pF typ. | 1.2pF typ. |
| Packing Unit (1)            |      | 3000pcs/reel (φ 180)                         |            |            |

(1) Moisture prevention packing is unnecessary.  
Moisture Sensitivity Level : LEVEL 1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications.

### DST1610A

[mm]

### DST1610AL

[mm]

### DST210AC

[mm]

