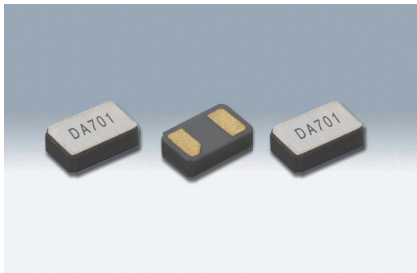
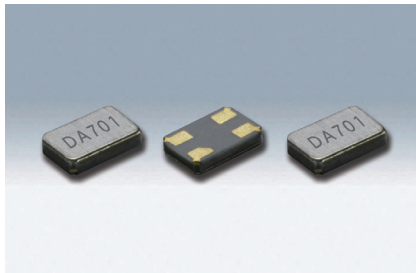


# SMD Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

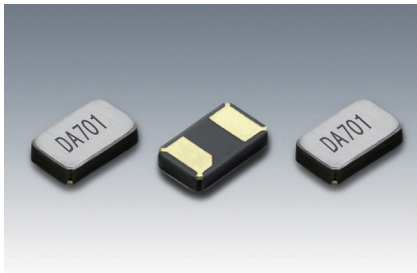
## DST1610A/DST1610AL/DST210AC



DST1610A



DST1610AL



DST210AC

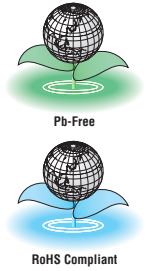
Actual size

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		4pF, 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		1.3pF typ.	1.2pF typ.	1.3pF 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]

DST1610A		DST1610AL		DST210AC	
Dimensions	Internal Connections	Dimensions	Internal Connections	Dimensions	Internal Connections