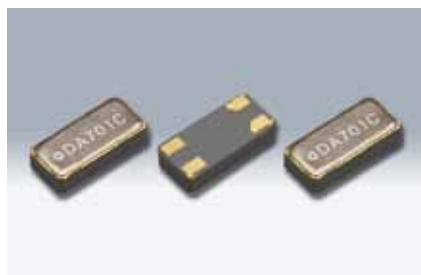


SMD Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

DST311S/DST310S



DST311S Actual size



DST310S Actual size

■ Features

- 3215 size miniature and lightweight SMD tuning fork crystal resonator with a low profile of 0.75mm.
- A ceramic package with a metal lid providing high precision and reliability.
- Metal lid connected to GND terminal to reduce EMI (DST311S).
- Noise sensitive applications (smart meter etc.) (DST311S).
- Series Resistance 50kΩ max. available.
- AEC-Q200 Compliant (DST310S)



■ Applications

- Mobile communications, radio-controlled clock, digital home appliances.
- Automotive applications such as multimedia devices (AEC-Q200 Compliant).

■ Standard Specification

Item	Type	DST311S	DST310S
Frequency Range		32.768kHz	
Load Capacitance		7pF, 9pF, 12.5pF	
Drive Level		0.2μW (1.0μW max.)	
Frequency Tolerance		±20×10 ⁻⁶ (at 25°C)	
Series Resistance		50kΩ max./80kΩ max.	
Turnover Temperature		+25°C±5°C	
Parabolic Coefficient		-0.04×10 ⁻⁶ /°C ² max.	
Operating Temperature Range		-40 to +85°C	
Storage Temperature Range		-40 to +85°C	
Shunt Capacitance		0.9pF typ.	1.3pF typ.
Packing Unit (1)		3000pcs./reel (φ180)	

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

Consult our sales representative for other specifications.

■ DST311S

[mm]

■ DST310S

[mm]

DST311S		DST310S	
■ Dimensions 	■ Internal Connections <Top View> <p>#1 & #4 connected to quartz element #2 & #3 connected to the cover #2 & #3 recommended GND connection</p>	■ Dimensions 	■ Internal Connections <Top View>
■ Recommended Land Pattern <Top View> 	■ Recommended Land Pattern <Top View> 		