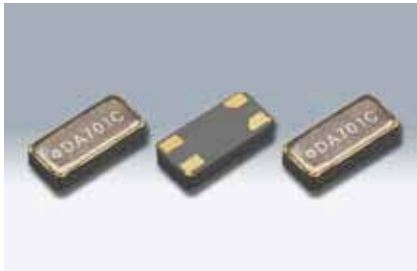


SMD Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

DST311S/DST310S/DST410S



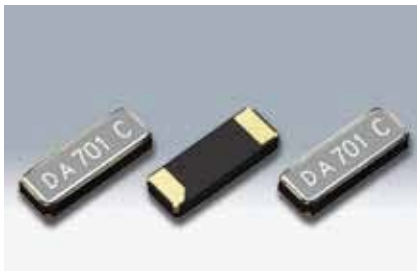
DST311S

Actual size



DST310S

Actual size



DST410S

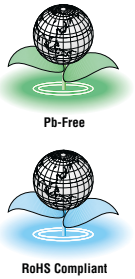
Actual size

■ Features

- 3215/4115 size miniature and lightweight SMD tuning fork crystal resonator with a low profile of 0.75mm.
- A ceramic package providing high precision and reliability.
- Metal lid connected to GND terminal to reduce EMI (DST311S).
- Noise sensitive application (smart meter etc.) (DST311S).
- Series Resistance 50kΩ max. available (DST311S, DST310S).
- AEC-Q200 Compliant (DST310S, DST410S)

■ Applications

- Mobile communications, PDA, wave clock, digital appliance.
- Automotive applications such as multimedia device (AEC-Q200 Compliant).



■ Standard Specification

Item \ Type	DST311S	DST310S	DST410S
Frequency Range	32.768kHz		
Load Capacitance	9pF, 10pF, 12.5pF		
Drive Level	0.2μW (1.0μW max.)		
Frequency Tolerance	±20×10 ⁻⁶ , ±30×10 ⁻⁶ , ±50×10 ⁻⁶ , ±100×10 ⁻⁶ (at 25℃)		
Series Resistance	50kΩ max./80kΩ max.		80kΩ max.
Turnover Temperature	+25℃±5℃		
Parabolic Coefficient	-0.04×10 ⁻⁶ /℃ ² max.		
Operating Temperature Range	-40 ~+85℃		
Storage Temperature Range	-40 ~+85℃		
Shunt Capacitance	0.9pF typ.	1.3pF typ.	
Packing Unit	3000pcs./reel (φ180)		

Consult our sales representative for other specifications.

■ DST311S

■ DST310S

■ DST410S

