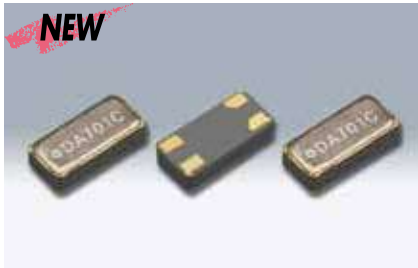


SMD Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

DST311S/DST310S/DST410S



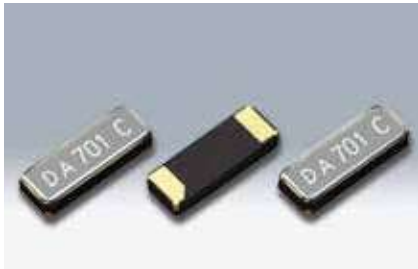
DST311S

Actual size



DST310S

Actual size

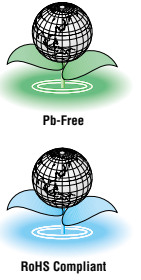


DST410S

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).
- AEC-Q200 Compliant (DST310S, DST410S)



■ Applications

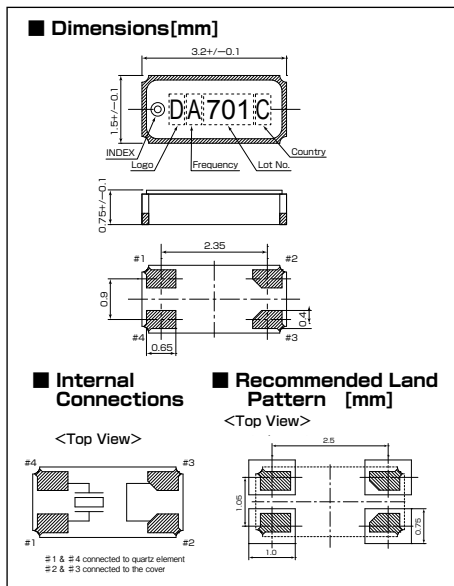
- Mobile communications, PDA, wave clock, digital appliance.
- Automotive applications such as multimedia device (AEC-Q200 Compliant).

■ Standard Specification

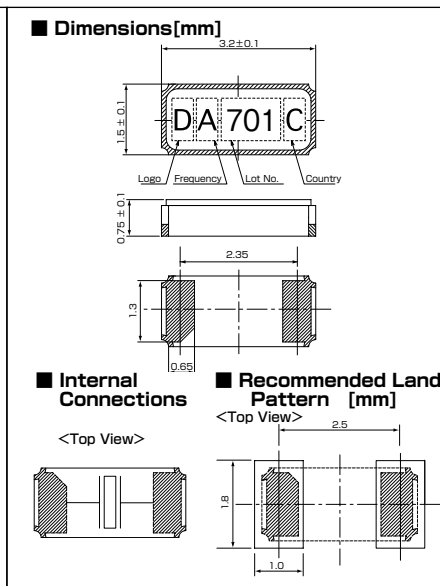
| Item | Type | DST311S | DST310S/DST410S |
|-----------------------------|------|--|-----------------|
| Frequency Range | | 32.768kHz | |
| Load Capacitance | | 9pF, 10pF, 12.5pF | |
| Drive Level | | 0.2μW (1.0μW max.) | |
| Frequency Tolerance | | ±20×10 ⁻⁶ , ±30×10 ⁻⁶ , ±50×10 ⁻⁶ , ±100×10 ⁻⁶ (at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

Consult our sales representative for other specifications.

■ DST311S



■ DST310S



■ DST410S

