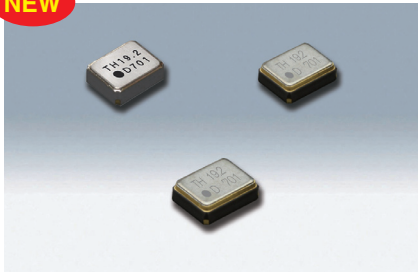


SMD Crystal Resonators with dedicated temperature sensor / MHz Band Crystal Resonators (For Automotive)

DSR211ATH/DSR211STH/DSR221STH

NEW



Actual size DSR211ATH □ DSR211STH □
DSR221STH □

■ Features

- DSR211ATH: 2016size, height 0.65mm max.
DSR211STH: 2016size, height 0.8mm max. (19.2MHz)
0.65mm max. (38.4MHz)
- DSR221STH: 2520size, height 1.0mm max.
- Built-in NTC thermistor
- Moisture prevention packing is unnecessary.
Moisture Sensitivity Level : LEVEL 1 (IPC/JEDEC J-STD-033)
- AEC-Q200 Compliant



■ Applications

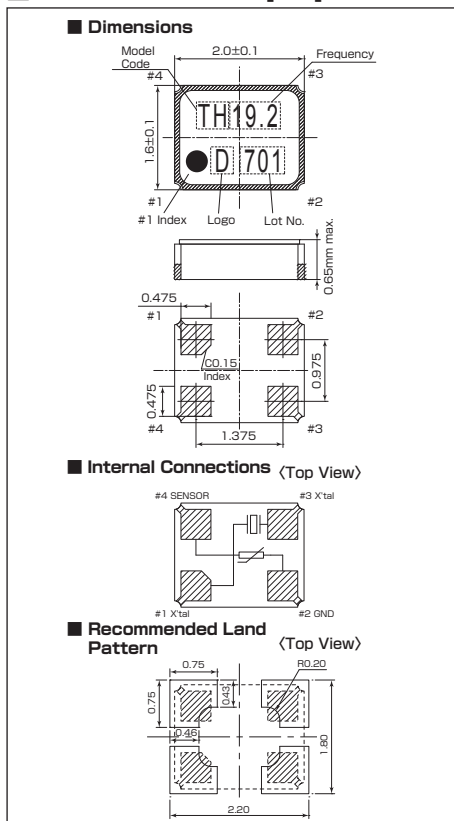
- Multimedia devices such as car navigation systems and car audio
- GPS/GNSS

■ Standard Specification

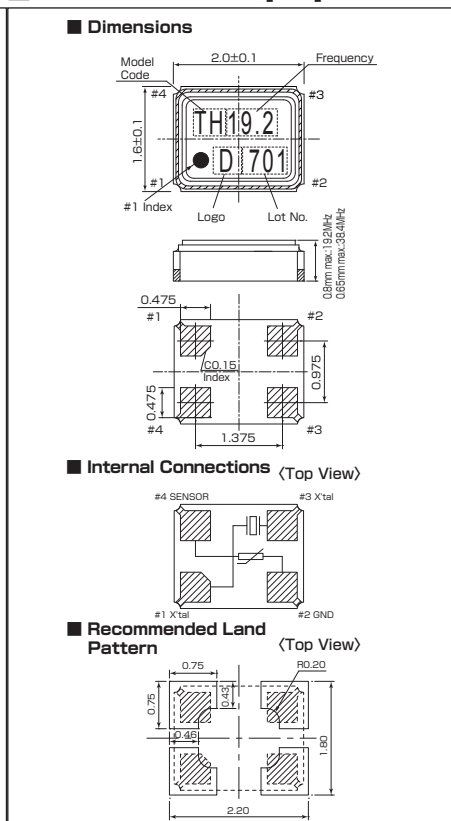
Item	Type	DSR211ATH	DSR211STH	DSR221STH
Frequency Range		19.2MHz	19.2MHz/38.4MHz	19.2MHz
Overtone Order		Fundamental		
Load Capacitance		7pF, 8pF		
Drive Level		10μW (100μW max.)		
Frequency Tolerance		±10×10 ⁻⁶ (at 25°C)		
Series Resistance		80Ω max.		
Frequency Characteristics over Temperature		±30×10 ⁻⁶ / -40 to +105 °C (±12×10 ⁻⁶ / -30 to +85 °C)	±30×10 ⁻⁶ / -40 to +105 °C (±12×10 ⁻⁶ / -30 to +85 °C)	±20×10 ⁻⁶ / -40 to +105 °C
Storage Temperature Range		-40 to +125 °C		
Thermistor Resistance		100kΩ (at +25°C)		
Thermistor B-constant		4250K (+25°C to +50°C)		
Reliability		AEC-Q200		
Packing Unit		3000pcs./reel (φ 180)		

Consult our sales representative for other specifications.

■ DSR211ATH [mm]



■ DSR211STH [mm]



■ DSR221STH [mm]

