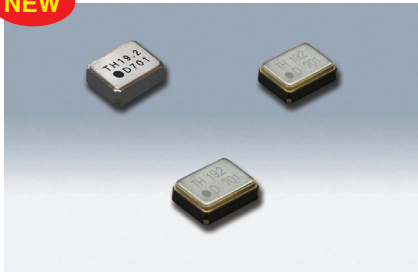


# SMD Crystal Resonators with dedicated temperature sensor / MHz Band Crystal Resonators (For Automotive)

## 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

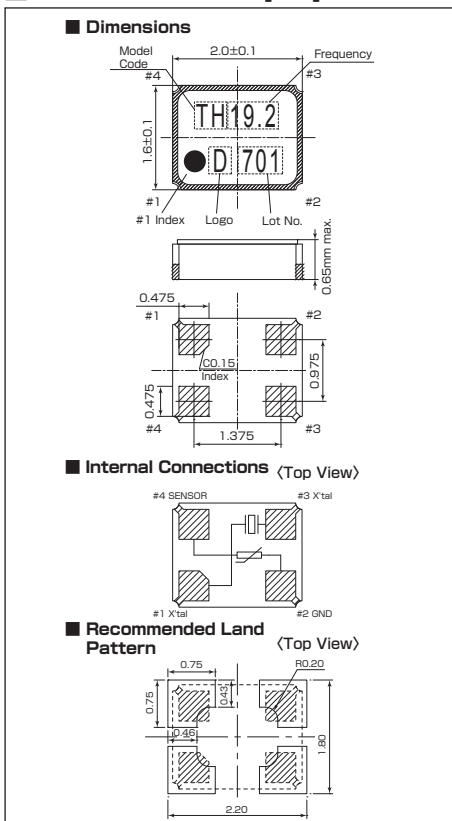
- Multimedia devices such as car navigation systems and car audio
- GPS/GNSS

### ■ Standard Specification

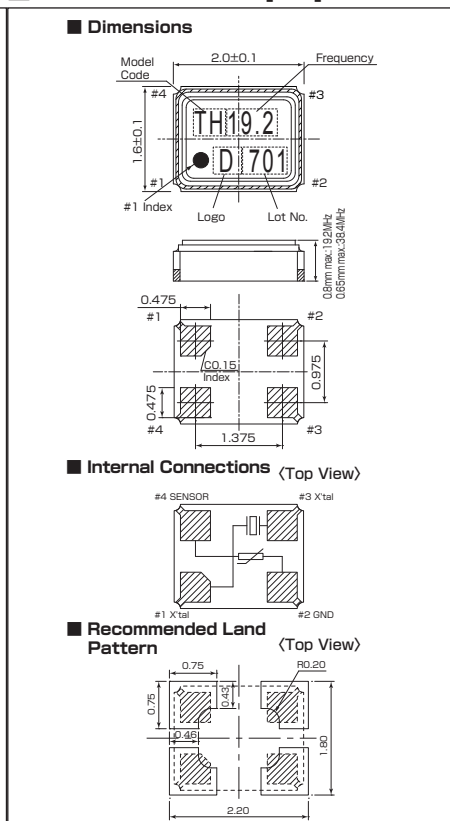
Item	Type	DSR211ATH	DSR211STH	DSR221STH
Frequency Range		19.2MHz	19.2MHz/38.4MHz	19.2MHz
Overtone Order		Fundamental		
Load Capacitance		7pF, 8pF		
Drive Level		10μW (100μW max.)		
Frequency Tolerance		±10×10 <sup>-6</sup> (at 25°C)		
Series Resistance		80Ω max.		
Frequency Characteristics over Temperature		±30×10 <sup>-6</sup> / -40 to +105 °C (±12×10 <sup>-6</sup> / -30 to +85 °C)		±30×10 <sup>-6</sup> / -40 to +105 °C (±12×10 <sup>-6</sup> / -30 to +85 °C) ±20×10 <sup>-6</sup> / -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.

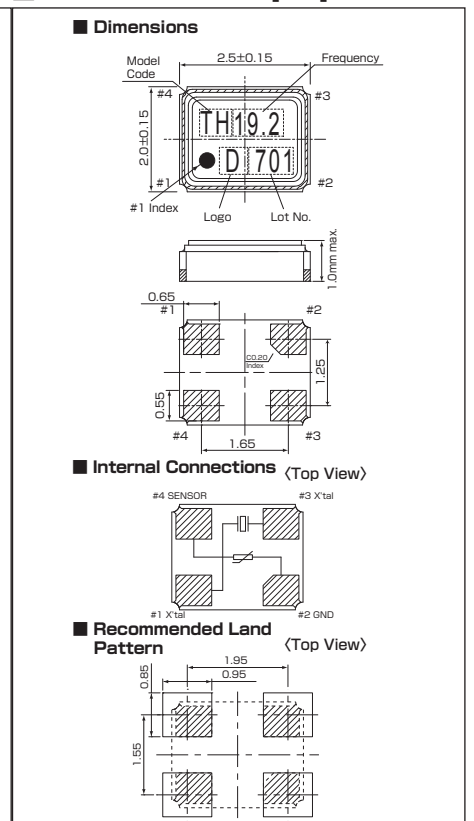
### ■ DSR211ATH [mm]



### ■ DSR211STH [mm]



### ■ DSR221STH [mm]



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