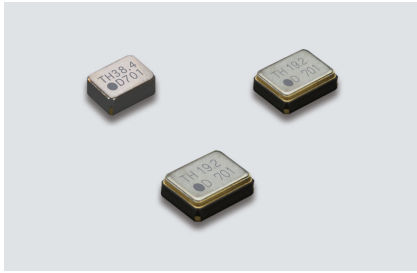


SMD Crystal Resonators with dedicated temperature sensor / MHz Band Crystal Resonators

DSR1612ATH/DSR211STH/DSR221STH



Actual size DSR1612ATH □ DSR211STH □
DSR221STH □

■ Features

- DSR1612ATH: 1612size, height 0.55mm
DSR211STH: 2016size,
height 0.7mm (19.2MHz / 26MHz)
0.6mm (38.4MHz / 55.2MHz)
- DSR221STH: 2520size height 0.9mm
- Built-in NTC thermistor

■ Applications

- Mobile phones
- GPS/GNSS
- Wearable devices
- UWB



■ Standard Specification

Item \ Type	DSR1612ATH	DSR211STH	DSR221STH
Frequency Range	38.4MHz / 52MHz / 76.8MHz	19.2MHz / 26MHz / 38.4MHz / 55.2MHz	19.2MHz / 26MHz
Overtone Order	Fundamental		
Load Capacitance	7pF, 8pF		
Drive Level	10 μW (100 μW max.)		
Frequency Tolerance	±10×10 ⁻⁶ (at 25℃)		
Series Resistance	80Ω max.		
Frequency Characteristics over Temperature	±12×10 ⁻⁶ / -30 to +85 ℃		
Storage Temperature Range	-40 to +125 ℃		
Thermistor Resistance	100kΩ (at +25℃)	10kΩ / 100kΩ (at +25℃)	
Thermistor B-constant	4250K (+25℃ to +50℃)	3435K (+25 to +85℃) / 4250K (+25 to +50℃)	
Packing Unit (1)	3000pcs./reel (ϕ 180)		

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

Consult our sales representative for other specifications.

■ DSR1612ATH

[mm]

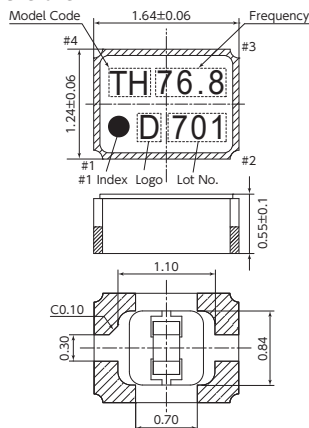
■ DSR211STH

[mm]

■ DSR221STH

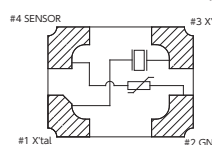
[mm]

■ Dimensions



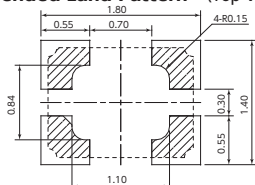
■ Internal Connections

(Top View)

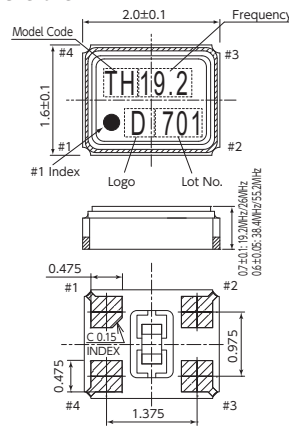


■ Recommended Land Pattern

(Top View)

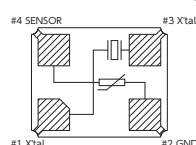


■ Dimensions



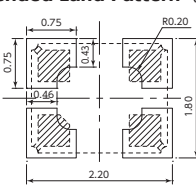
■ Internal Connections

(Top View)

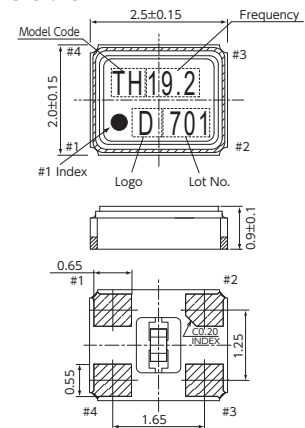


■ Recommended Land Pattern

(Top View)

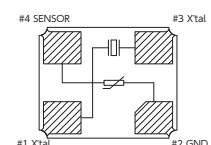


■ Dimensions



■ Internal Connections

(Top View)



■ Recommended Land Pattern

(Top View)

