

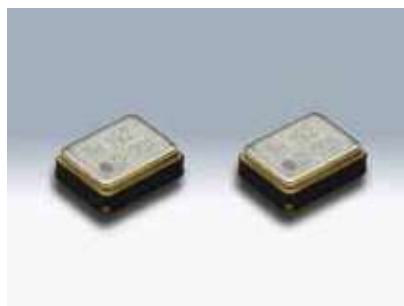
SMD Crystal Resonators / MHz Band Crystal Resonators(with dedicated temperature sensor)

DSR21 1ATH/DSR22 1STH



DSR21 1ATH

Actual size □



DSR22 1STH

Actual size □

■ Features

- DSR21 1ATH: 2016size
0.65mm or 0.8mm high
- DSR22 1STH: 2520size
0.9mm high
- Built-in NTC thermistor
- Prevention of moisture packing is unnecessary
Moisture Sensitivity Level : LEVEL 1 (IPC/JEDEC J-STD-033)



■ Applications

- Mobile phones
- GPS

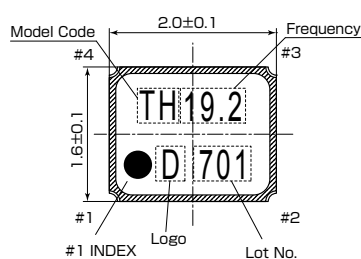
■ Standard Specification

Item	Type	DSR21 1ATH/DSR22 1STH
Frequency Range		19.2/26 MHz
Overtone Order		Fundamental
Load Capacitance		7pF, 8pF, 10pF, 12pF
Drive Level		10 μ W (100 μ W max.)
Frequency Tolerance		$\pm 10 \times 10^{-6}$, $\pm 20 \times 10^{-6}$
Series Resistance		80 Ω max.
Frequency Characteristics over Temperature		$\pm 12 \times 10^{-6}$, $\pm 20 \times 10^{-6}$ / -30 ~ +85 $^{\circ}$ C
Storage Temperature Range		-40 ~ +125 $^{\circ}$ C
Thermistor Resistance		100k Ω (at +25 $^{\circ}$ C)
Thermistor B-constant		4250K (+25 $^{\circ}$ C / +50 $^{\circ}$ C)
Packing Unit		3000pcs./reel (ϕ 180)

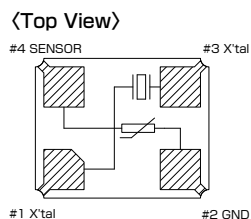
Consult our sales representative for other specifications.

■ DSR21 1ATH

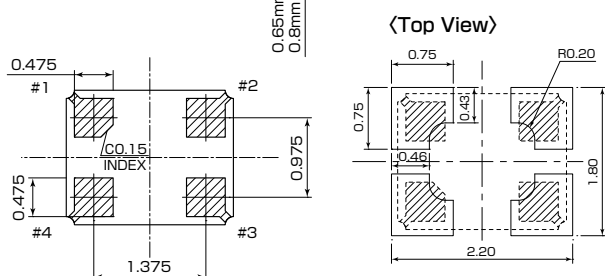
■ Dimensions[mm]



■ Internal Connections

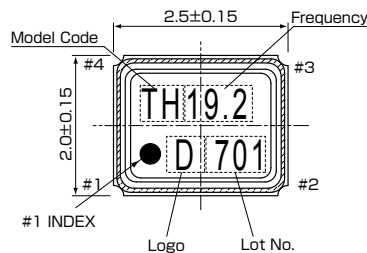


■ Recommended Land Pattern[mm]

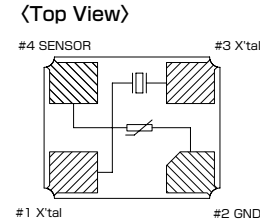


■ DSR22 1STH

■ Dimensions[mm]



■ Internal Connections



■ Recommended Land Pattern[mm]

