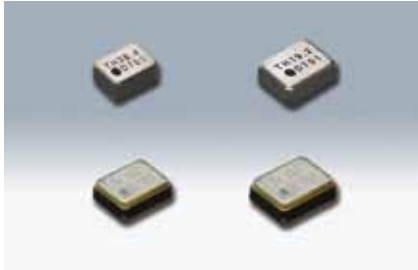


SMD Crystal Resonators with dedicated temperature sensor / MHz Band Crystal Resonators

DSR1612ATH/DSR211ATH/DSR211STH/DSR221STH



Actual size DSR1612ATH □ DSR211ATH □
DSR211STH □ DSR221STH □

Features

- DSR1612ATH: 1612size, height 0.65mm max.
- DSR211ATH: 2016size, height 0.65mm max.
- DSR211STH: 2016size, height 0.8mm max. (19.2MHz / 26MHz) 0.65mm max. (38.4MHz)
- DSR221STH: 2520size height 1.0mm max.
- Built-in NTC thermistor

Applications

- Mobile phones
- GPS/GNSS
- Wearable devices



Standard Specification

Item	Type	DSR1612ATH	DSR211ATH	DSR211STH	DSR221STH
Frequency Range		38.4MHz / 52MHz / 76.8MHz	19.2MHz	19.2MHz / 26MHz / 38.4MHz	19.2MHz/26MHz
Overtone Order		Fundamental			
Load Capacitance		6pF, 7pF, 8pF			
Drive Level		10μW (100μW max.)			
Frequency Tolerance		±10×10 ⁻⁶ (at 25°C)			
Series Resistance		80Ω max.			
Frequency Characteristics over Temperature		±12×10 ⁻⁶ / -30 to +85 °C			
Storage Temperature Range		-40 to +125 °C			
Thermistor Resistance		22kΩ / 100kΩ (at +25°C)			
Thermistor B-constant		3380K / 4250K (+25°C to +50°C)			
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]	DSR211ATH [mm]	DSR211STH [mm]	DSR221STH [mm]
<p>Dimensions</p> <p>Internal Connections (Top View)</p> <p>Recommended Land Pattern (Top View)</p>	<p>Dimensions</p> <p>Internal Connections (Top View)</p> <p>Recommended Land Pattern (Top View)</p>	<p>Dimensions</p> <p>Internal Connections (Top View)</p> <p>Recommended Land Pattern (Top View)</p>	<p>Dimensions</p> <p>Internal Connections (Top View)</p> <p>Recommended Land Pattern (Top View)</p>