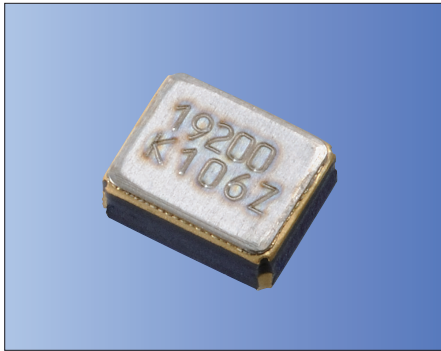




2.5×2.0mm for Mobile Communications/ Automotive



AEC-Q200

RoHS Compliant

**Features**

- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability

**Applications**

- Mobile Communications, Bluetooth®, Wireless LAN, GNSS
- Car navigation system
- Car audio system

\* Bluetooth® Trademarks are owned by Bluetooth SIG, Inc.

**How to Order**

CT2520DB 19200 □□ □ □ □ □  
① ② ③ ④ ⑤ ⑥ ⑦

①Series						
②Frequency						
③Load Capacitance				④Frequency Tolerance		
B0	6 pF	—	F	$\pm 10 \times 10^{-6}$	Std.	
C0	7 pF	Std.	G	$\pm 15 \times 10^{-6}$	—	
⑤Operating Temp. Range				⑥Frequency Temp. Stability		
FF	-20 to +70°C		$\pm 10 \times 10^{-6}$			
LH	-30 to +85°C		$\pm 12 \times 10^{-6}$			
LJ	-30 to +85°C		$\pm 15 \times 10^{-6}$			

⑦Individual Specification

Packaging (Tape & Reel 12000 pcs./ reel)

**Specifications**

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f <sub>nom</sub>	19200/ 26000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	7	pF	
Frequency Tolerance	f <sub>tol</sub>	$\pm 10$	$\times 10^{-6}$	30°C $\pm 3$ °C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10	$\mu$ W	100 $\mu$ W max.
Operating Temp. Range	T <sub>use</sub>	-30 to +85	°C	
Storage Temp. Range	T <sub>stg</sub>	-40 to +105	°C	
Frequency Temp. Characteristics	f <sub>tem</sub>	$\pm 12$	$\times 10^{-6}$	Freq. deviation from the value at 30°C
Thermistor Resistance	—	Table 2	ohm	25°C
Thermistor B-Constant	—	Table 3	K	25°C to 50°C

Please contact us for other specifications.

Table 1 Motional Series Resistance

Frequency Range	Motional Series Resistance
19200kHz	80 $\Omega$ max.
26000kHz	60 $\Omega$ max.

Table 2 Thermistor Resistance

Resistance	Specification
100k $\Omega$	$\pm 1\%$

Table 3 Thermistor B-Constant

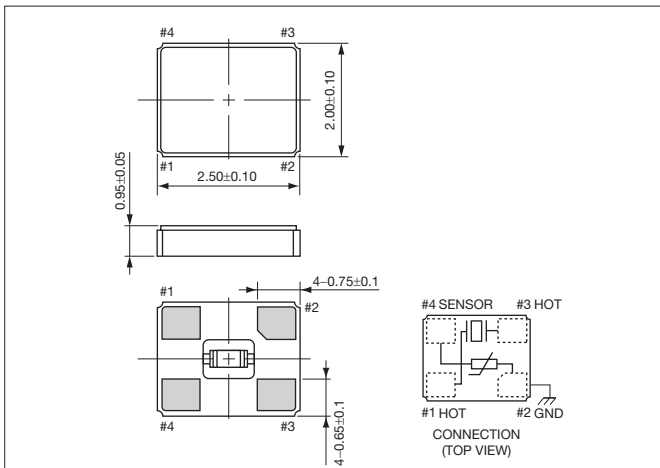
B-Constant	Specification
4250K	$\pm 1\%$

Crystal Units



**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)

