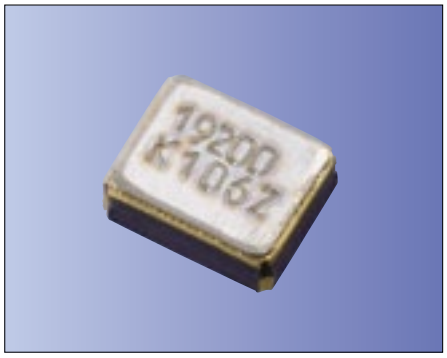
Crystal Units with Thermistor
Surface Mount Type CT2520DB

KYOCERA

2.5×2.0mm for Mobile Communications



RoHS Compliant

Features

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

Applications

- Mobile Communications, Bluetooth®, Wireless LAN, GPS

* Bluetooth® Trademarks are owned by Bluetooth SIG Inc.

How to Order

CT2520DB 19200 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series
② Frequency
③ Load Capacitance ④ Frequency Stability

B0	6 pF	—	F	±10×10⁻⁶	Std.
C0	7 pF	Std.	G	±15×10⁻⁶	—

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

FF	−20 to +70°C	±10×10⁻⁶	—
LJ	−30 to +85°C	±15×10⁻⁶	—

⑦ Individual Specification

Packaging (Tape & Reel 12000 pcs./ reel)

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	16000 to 60000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	7	pF	
Frequency Stability	f_{tol}	±10	×10⁻⁶	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10	μW	100μW max.
Operating Temp. Range	T_{use}	−30 to +85	°C	
Storage Temp. Range	T_{stg}	−40 to +105	°C	
Frequency Temp. Characteristics	f_{tem}	±12	×10⁻⁶	Freq. deviation from the value at 25°C
Thermistor Resistance	—	Table 2	ohm	25°C
Thermistor B-Constant	—	Table 3	K	25°C–50°C

• Please contact us for other specifications.

Table1 Motional Series Resistance

Frequency Range	Motional Series Resistance
16000 to 19199kHz	100Ω max.
19200 to 25999kHz	80Ω max.
26000 to 29999kHz	60Ω max.
30000 to 60000kHz	50Ω max.

Table 2 Thermistor Resistance

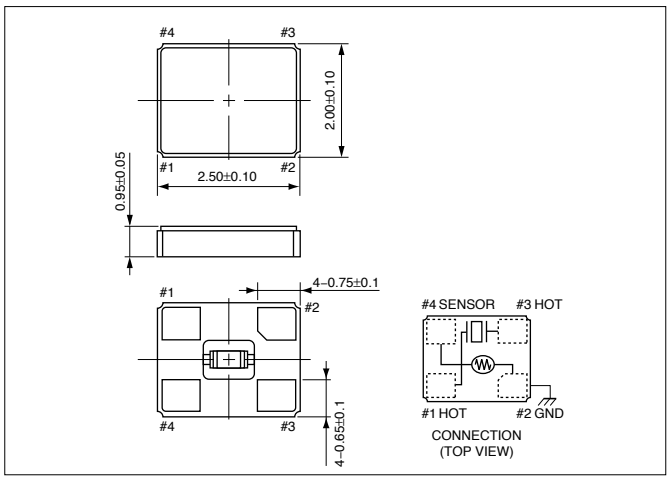
Resistance	Specification
100kΩ	±1%

Table 3 Thermistor B-Constant

B-Constant	Specification
4250K	±1%

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

