

Crystal Units with Thermistor Surface Mount Type CT2520DB



2.5×2.0mm for Mobile Communications/ Automotive



RoHS Compliant

Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability
- AEC-Q200 qualified

Applications

- Mobile Communications, Bluetooth®, Wireless LAN, GPS
- 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

- ① Series
② Frequency
③ Load Capacitance ④ Frequency Tolerance

B0	6 pF	—	F	$\pm 10 \times 10^{-6}$	Std.
C0	7 pF	Std.	G	$\pm 15 \times 10^{-6}$	—

- ⑤ Operating Temp. Range ⑥ Frequency 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	$\pm 15 \times 10^{-6}$	—

- 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 Tolerance	f _{tol}	±10	×10 ^{−6}	30°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 30°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

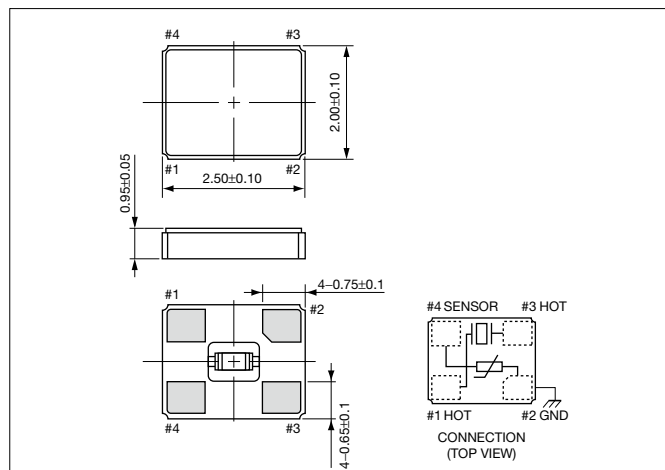
Resistance	Specification
100kΩ	±1%

Table 3 Thermistor B-Constant

B-Constant	Specification
4250K	±1%

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

