

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 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 | $\pm 10 \times 10^{-6}$ | — |
| 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 <sub>nom</sub>	16000 to 60000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	7	pF	
Frequency Tolerance	f <sub>tol</sub>	±10	×10 <sup>−6</sup>	30°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10	μW	100μW 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>	±12	×10 <sup>−6</sup>	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

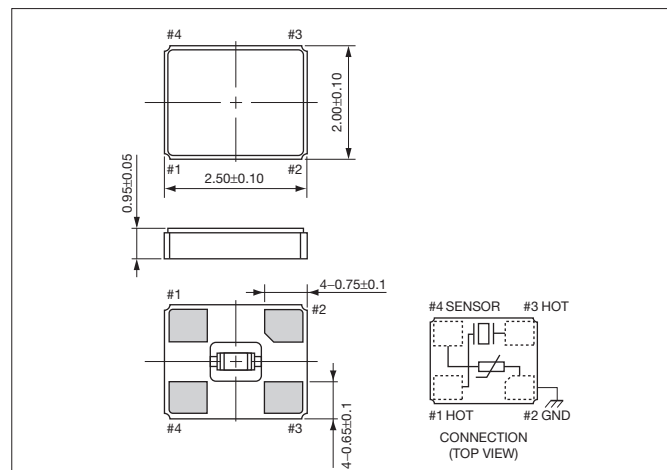
Resistance	Specification
100kΩ	±1%

### Table 3 Thermistor B-Constant

B-Constant	Specification
4250K	±1%

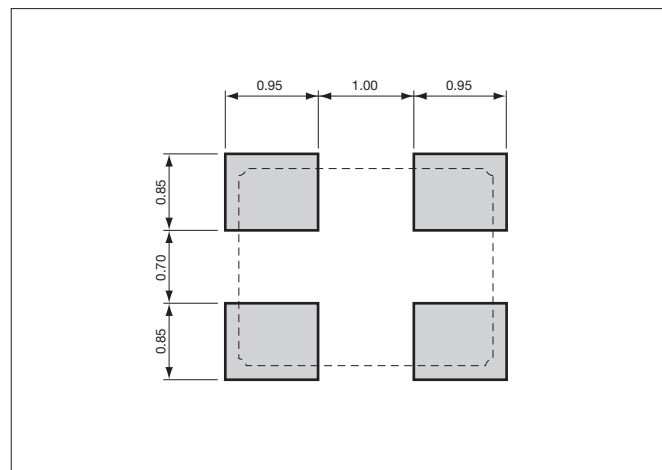
### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)



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[CT2520DB19200C0FLHAF](#) [CT2520DB26000C0FZZA1](#)