



2.0×1.6mm for Mobile Communications



RoHS Compliant

Features

- Crystal Unit with Thermistor
- Height 0.65 (max.) mm is also available
- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability

Applications

- Mobile Communications, GNSS

How to Order

CT2016DB 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

PF	-40 to +85°C	$\pm 10 \times 10^{-6}$ (at -25 to +85°C)
RH	-40 to +105°C	$\pm 12 \times 10^{-6}$ (at -30 to +85°C)

⑦Individual Specification

Packaging (Tape & Reel 12000 pcs./ reel)

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f _{nom}	19200/ 38400	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	7	pF	
Frequency Tolerance	f _{tol}	± 10	$\times 10^{-6}$	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	$\times 10^{-6}$	Freq. deviation from the value at 32°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
19200/ 38400kHz	80 Ω max.

Table 2 Thermistor Resistance

Resistance	Specification
100kΩ	± 1%

Table 3 Thermistor B-Constant

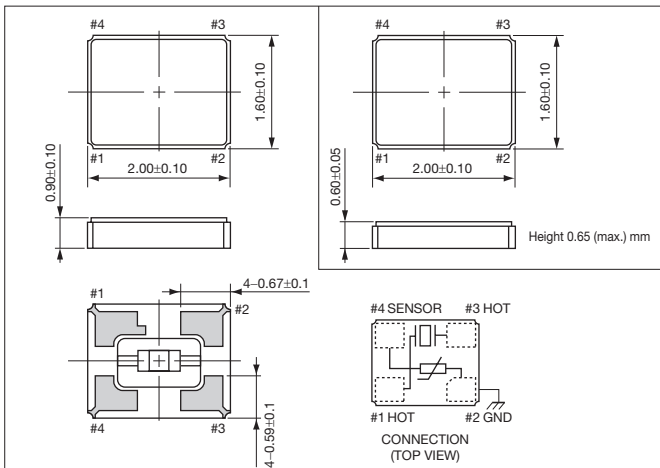
B-Constant	Specification
4250K	± 1%

Crystal Units



Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

