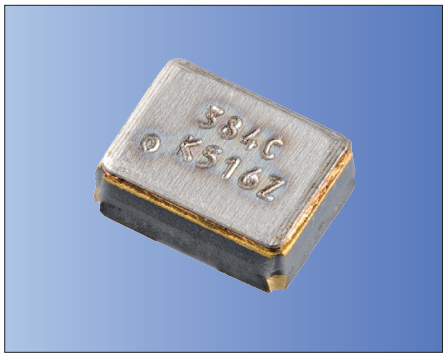
Crystal Units with Thermistor
Surface Mount Type CT1612DB

1.6×1.2mm for Mobile Communications



RoHS Compliant

Features

- Crystal Unit with Thermistor
- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability

Applications

- Mobile Communications, GNSS

How to Order

CT1612DB 38400 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

①Series
②Frequency
③Load Capacitance

B0	6 pF	—
C0	7 pF	—
D0	8 pF	Std.

④Frequency Tolerance

F	±10×10^{-6}	Std.
G	±15×10^{-6}	—

⑤Operating Temp. Range ⑥Frequency Temp. Stability

LH	−30 to +85°C	±12×10^{-6}(at −30 to +85°C)

⑦Individual Specification

Packaging (Tape & Reel 12000 pcs./ reel)

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f_{nom}	38400 to 76800	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	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}	
Thermistor Resistance	—	Table 2	ohm	25°C±3°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
38400 to 76800kHz	80 Ω max.

Table 2 Thermistor Resistance

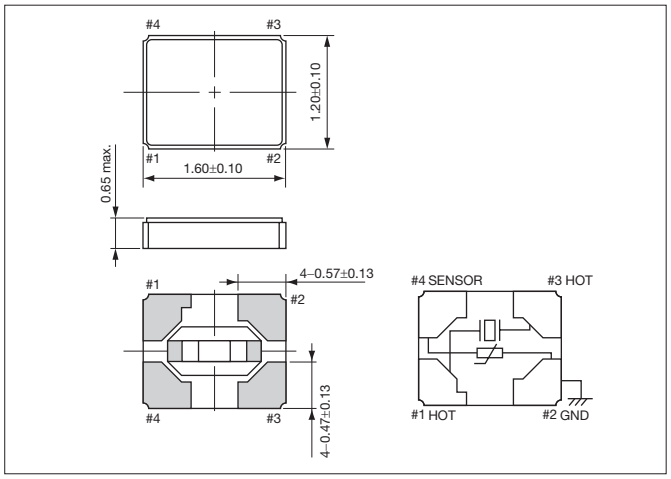
Resistance	Specification
22kΩ	±1%
100kΩ	±1%

Table 3 Thermistor B-Constant

B-Constant	Specification
3380K	±1%
4250K	±1%

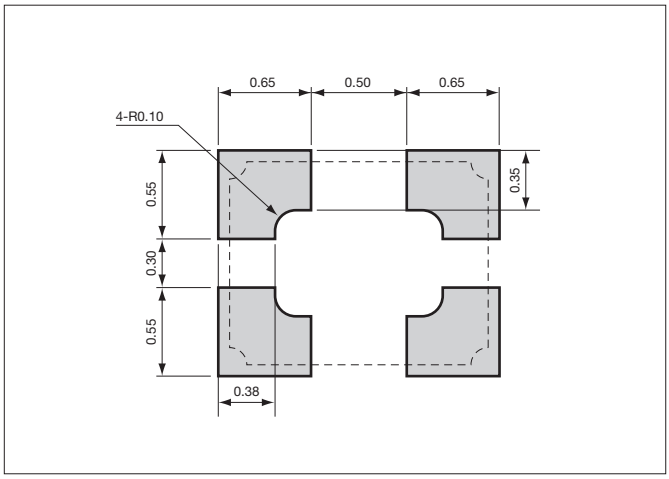
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



As of December 2019