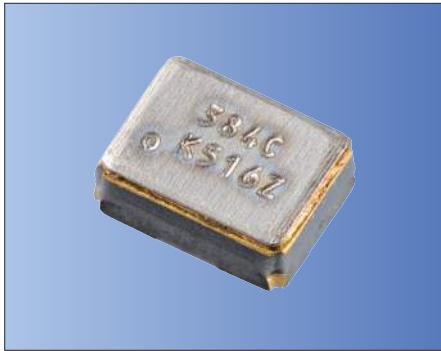




1.6x1.2mm for Mobile Communications



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

④Frequency Tolerance

B0	6 pF	—	F	$\pm 10 \times 10^{-6}$	Std.
C0	7 pF	—	G	$\pm 15 \times 10^{-6}$	—
D0	8 pF	Std.			

⑤Operating Temp. Range ⑥Frequency Temp. Stability

LH	-30 to +85°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 <sub>nom</sub>	38400 to 76800	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	f <sub>tol</sub>	$\pm 10$	$\times 10^{-6}$	25°C $\pm 3$ °C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10	$\mu$ W	100 $\mu$ W 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>	$\pm 12$	$\times 10^{-6}$	
Thermistor Resistance	—	Table 2	ohm	25°C $\pm 3$ °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 $\Omega$ max.

Table 2 Thermistor Resistance

Resistance	Specification
22k $\Omega$	$\pm 1\%$
100k $\Omega$	$\pm 1\%$

Table 3 Thermistor B-Constant

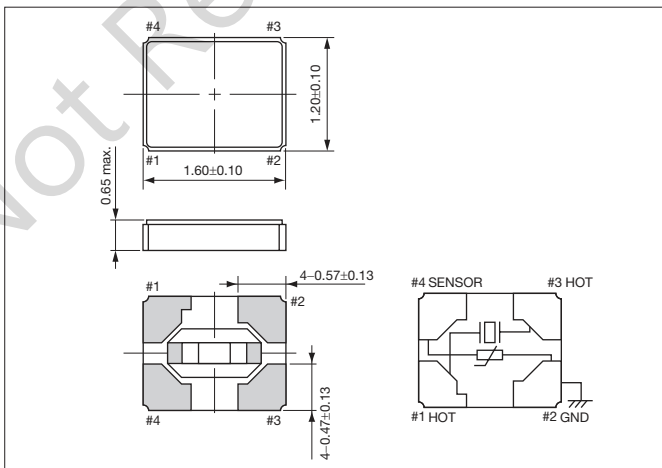
B-Constant	Specification
3380K	$\pm 1\%$
4250K	$\pm 1\%$

Crystal Units



**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)

