



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

CT1612RB 38400 □□ □ □ □ □ □
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	—	G	$\pm 15 \times 10^{-6}$	—
D0	8 pF	Std.			

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

LH	-30 to +85°C	$\pm 12 \times 10^{-6}$ (at -30 to +85°C)
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⑦ Individual Specification

Packaging (Tape & Reel 15000 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	$\times 10^{-6}$	25°C $\pm 3^\circ\text{C}$
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10	μW	100 μW 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	$\times 10^{-6}$	
Thermistor Resistance	—	Table 2	ohm	25°C $\pm 3^\circ\text{C}$
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	50 Ω max.

Table 2 Thermistor Resistance

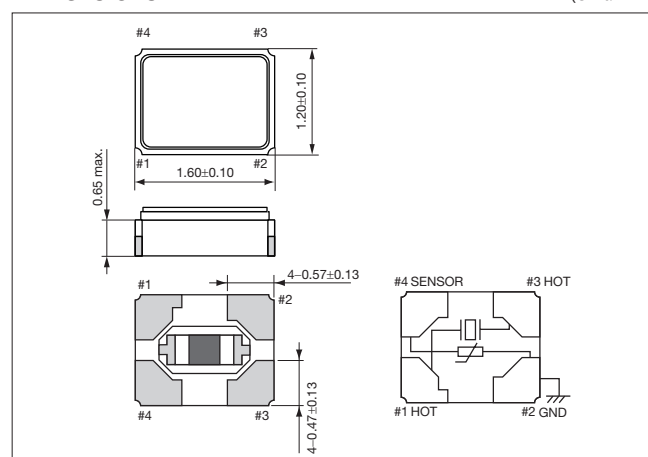
Resistance	Specification
100k Ω	$\pm 1\%$

Table 3 Thermistor B-Constant

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

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

