Crystal Units with Thermistor
Surface Mount Type CT1612RB

1.6 × 1.2mm for Mobile Communications

RoHS Compliant
PSL: R4Y
MSL1

Features

- Ultra-miniature crystal unit with thermistor
- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability

Applications

- Consumer Products
- Wireless Comm. (Mobile Communications, GNSS)
- Industrial Equipment

How to Order

CT1612RB 38400 □□ □ □ □ □ CC
① ② ③ ④ ⑤ ⑥ ⑦

① Series
② Frequency
③ Load Capacitance

B0	6 pF	—
C0	7 pF	—
D0	8 pF	Std.

④ Frequency Tolerance

F	± 10 × 10^{-6}	Std.
G	± 15 × 10^{-6}	—

⑤ Operating Temp. Range
⑥ Frequency Temp. Stability

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

⑦ Individual Specification
(STD Specification is “CC” .)

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	× 10^{-6}	25°C± 3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10	μ W	100 μ W 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 / 50°C

Please contact us for other specifications.

Table 1 Motional Series Resistance ESR (CI) STD Specification

Frequency Range	ESR (Ohm)
38.4≦F<52	50Ω max.
52≦F≦76.8	30Ω max.

Table 2 Thermistor Resistance

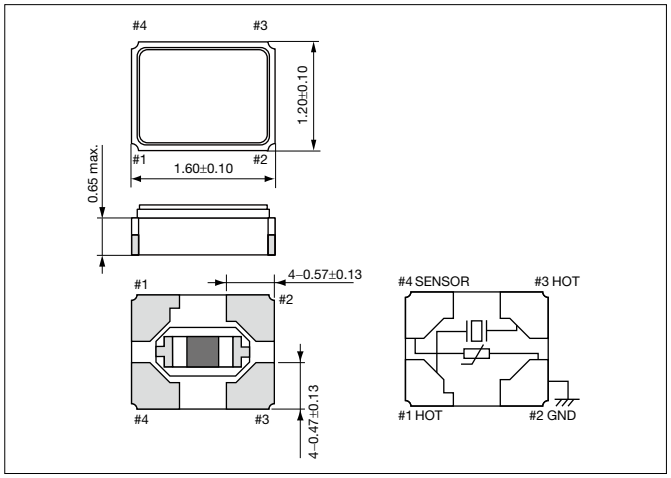
Resistance	Specification
100kΩ	± 1%

Table 3 Thermistor B-Constant

B-Constant	Specification
4250K	± 1%

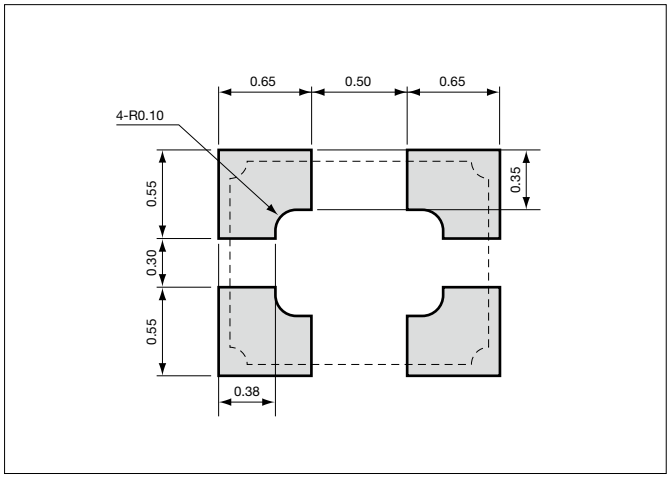
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Crystal Units

As of October 2026