



1.6×1.2mm for Mobile Communications



RoHS Compliant

Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability
- Ultra-miniature and low profile

Applications

- Smartphone (Bluetooth®, Wireless LAN, NFC)
- Short range wireless (LPWA)
- 1seg. tuner

* Bluetooth® Trademarks are owned by Bluetooth SIG, Inc.

How to Order

CX1612DB 37400 □□ □ □ CC
① ② ③ ④ ⑤ ⑥ ⑦

| | |
|-------------------|------------------------|
| ①Series | ②Frequency |
| ③Load Capacitance | ④Frequency Tolerance |
| B0 6 pF | F ±10×10 ⁻⁶ |
| D0 8 pF | G ±15×10 ⁻⁶ |

| | |
|------------------------|----------------------------|
| ⑤Operating Temp. Range | ⑥Frequency Temp. Stability |
| FF -20 to +70°C | ±10×10 ⁻⁶ |
| LJ -30 to +85°C | ±15×10 ⁻⁶ |

⑦Individual Specification (c)

Packaging (Tape & Reel 3000/ 20000 pcs./ reel)

Specifications

| Item | Symbol | Specification | Unit | Remarks |
|---------------------------------|------------------|----------------|-------------------|----------------------------------------|
| Frequency Range | f _{nom} | 32000 to 60000 | kHz | |
| Overtone Order | OT | Fundamental | — | |
| Load Capacitance | CL | 8 | pF | |
| Frequency Tolerance | f _{tol} | ±10 | ×10 ⁻⁶ | 25°C±3°C |
| Motional Series Resistance | R1 | Table 1 | ohm | |
| Drive Level | DL | Table 2 | μW | |
| Operating Temp. Range | T _{use} | -30 to +85 | °C | |
| Storage Temp. Range | T _{stg} | -40 to +85 | °C | |
| Frequency Temp. Characteristics | f _{tem} | ±15 | ×10 ⁻⁶ | Freq. deviation from the value at 25°C |

Please contact us for other specifications.

Crystal Units

Table 1 Motional Series Resistance

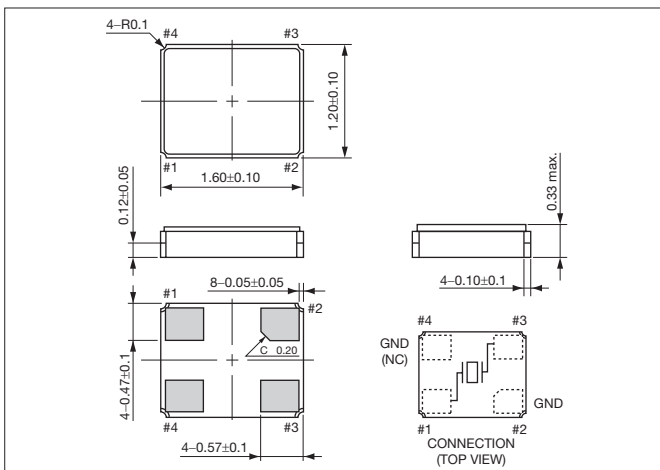
| Frequency Range | Motional Series Resistance |
|----------------------------------|----------------------------|
| 32000≤f _{nom} <37400kHz | 150 Ω max. |
| 37400≤f _{nom} <50000kHz | 80 Ω max. |
| 50000≤f _{nom} ≤60000kHz | 50 Ω max. |

Table 2 Level of Drive

| Frequency Range | Level of Drive |
|----------------------------------|-------------------|
| 32000≤f _{nom} ≤60000kHz | 10μW (100μW max.) |

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

