



1.2 × 1.0mm for Consumer Products/ Mobile Communications



PSL: R4Y

How to Order

CX1210SB 27120 CC

- ① Series (Type and Size)
- ② Frequency (24000 to 80000kHz)
- ③④ Load Capacitance (Unit:pF) Ex.: D1:8.1pF

| ③ Integer part | | ④ After the decimal point | |
|----------------|----------------|---------------------------|----|
| D | 8 | 0 | .0 |
| E | 9 | 1 | .1 |
| F | 10 | 2 | .2 |
| G | 11 | 3 | .3 |
| H | 12 | 4 | .4 |
| Z | Special suffix | 5 | .5 |
| | | 6 | .6 |
| | | 7 | .7 |
| | | 8 | .8 |
| | | 9 | .9 |

Packaging

(Tape & Reel 1000/ 3000/ 12000/ 21000pcs./ reel)

⑤ Frequency Tolerance

| | |
|---|----------------------|
| F | ±10×10 ⁻⁶ |
| G | ±15×10 ⁻⁶ |
| H | ±20×10 ⁻⁶ |
| J | ±25×10 ⁻⁶ |
| K | ±30×10 ⁻⁶ |
| M | ±40×10 ⁻⁶ |
| P | ±50×10 ⁻⁶ |
| W | All Over |
| Z | Special suffix |

Features

- Ultra-miniature and low profile (1.2 × 1.0 × 0.35mm max.)
- Crystal unit for mobile communication Systems.
- Reflow compatible
- Using ceramic package resulting in high reliability

Applications

- Consumer Products
- Wireless Comm. (Mobile Communications, Bluetooth®, Wireless LAN)
- *Bluetooth® is a registered trademark of Bluetooth SIG, Inc.
- Industrial Equipment

Specifications

| Item | Symbol | Specification | Unit | Remarks |
|---------------------------------|------------------|----------------------|--------------------|--|
| Frequency Range | f _{nom} | 24000 to 80000 | kHz | Please contact us for other frequency range. |
| 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.) | μ W | |
| 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 | Freq. deviation from the value at 25° C |
| Shunt capacitance | C0 | 2.0max. | pF | |

Please contact us for other specifications.

⑥ Operating Temp. Range ⑦ Frequency Temp. Stability

| ⑥ | ⑦ | F | J | L | R | S |
|---|--------------|--------|--------|--------|--------|--------|
| | | ±10ppm | ±15ppm | ±20ppm | ±40ppm | ±50ppm |
| G | -20 to 75°C | ✓ | ✓ | ✓ | ✓ | ✓ |
| L | -30 to 85°C | | ✓ | ✓ | ✓ | ✓ |
| P | -40 to 85°C | | | ✓ | ✓ | ✓ |
| R | -40 to 105°C | | | | ✓ | ✓ |
| S | -40 to 125°C | | | | ✓ | ✓ |

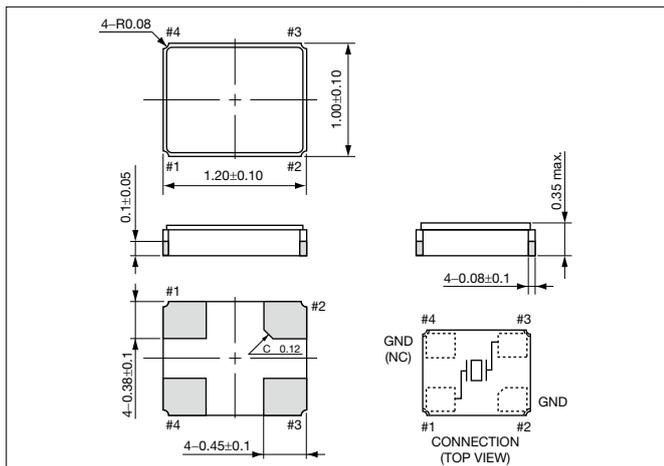
⑧ Individual Specification (STD Specification is "CC" .)

◆Table 1 Motional Series Resistance ESR (C1)

| Frequency (MHz) | ESR (Ohm) |
|-----------------|-----------|
| 24 ≤ F < 32 | 100 |
| 32 ≤ F < 37.4 | 80 |
| 37.4 ≤ F < 48 | 60 |
| 48 ≤ F ≤ 80 | 50 |

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

