



RoHS Compliant

**Features**

- Crystal unit for automotive electronics
- Small and low profile (11.8×5.5×2.5mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible
- AEC-Q200 certified

**Applications**

- ECU

**How to Order**

CX1255GA 04000 □□ □ □ □ □ □  
① ② ③ ④ ⑤ ⑥ ⑦

- ① Series (CX1255GA/ CX1255CA)
- ② Frequency
- ③ Load Capacitance ④ Frequency Stability

|           |       |      |          |                          |      |
|-----------|-------|------|----------|--------------------------|------|
| <b>DO</b> | 8 pF  | —    | <b>P</b> | $\pm 50 \times 10^{-6}$  | —    |
| <b>HO</b> | 12 pF | Std. | <b>Q</b> | $\pm 100 \times 10^{-6}$ | Std. |

- ⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

|           |               |                          |      |
|-----------|---------------|--------------------------|------|
| <b>TW</b> | -40 to +150°C | $\pm 200 \times 10^{-6}$ | Std. |
|-----------|---------------|--------------------------|------|

- ⑦ Individual Specification

**Typical Frequencies and Part Numbers**

| Frequency (kHz) | Part Number          |
|-----------------|----------------------|
| 4000.000        | CX1255GA04000HOQTWZ1 |
| 5000.000        | CX1255GA05000HOQTWZ1 |
| 6000.000        | CX1255GA06000HOQTWZ1 |
| 8000.000        | CX1255GA08000HOQTWZ1 |
| 10000.000       | CX1255GA10000HOQTWZ1 |
| 12000.000       | CX1255GA12000HOQTWZ1 |
| 16000.000       | CX1255GA16000HOQTWZ1 |
| 18000.000       | CX1255GA18000HOQTWZ1 |
| 20000.000       | CX1255GA20000HOQTWZ1 |
| 4000.000        | CX1255CA04000HOQTWZ1 |
| 5000.000        | CX1255CA05000HOQTWZ1 |
| 6000.000        | CX1255CA06000HOQTWZ1 |
| 8000.000        | CX1255CA08000HOQTWZ1 |
| 10000.000       | CX1255CA10000HOQTWZ1 |
| 12000.000       | CX1255CA12000HOQTWZ1 |
| 16000.000       | CX1255CA16000HOQTWZ1 |
| 18000.000       | CX1255CA18000HOQTWZ1 |
| 20000.000       | CX1255CA20000HOQTWZ1 |

**Specifications**

| Item                            | Symbol           | Specification | Units             | Remarks                                |
|---------------------------------|------------------|---------------|-------------------|--|
| Frequency Range                 | f <sub>nom</sub> | 3500 to 20000 | kHz               |  |
| Overtone Order                  | OT               | Fundamental   | —                 |  |
| Load Capacitance                | CL               | 12            | pF                |  |
| Frequency Stability             | f <sub>tol</sub> | ±100          | ×10 <sup>-6</sup> | 25°C±3°C                               |
| Motional Series Resistance      | R1               | Table 1       | ohm               |  |
| Drive Level                     | DL               | Table 2       | μW                |  |
| Operating Temp. Range           | T <sub>use</sub> | -40 to +150   | °C                |  |
| Storage Temp. Range             | T <sub>stg</sub> | -40 to +150   | °C                |  |
| Frequency Temp. Characteristics | f <sub>tem</sub> | ±200          | ×10 <sup>-6</sup> | Freq. deviation from the value at 25°C |

• Please contact us for other specifications.

**Table1 Motional Series Resistance**

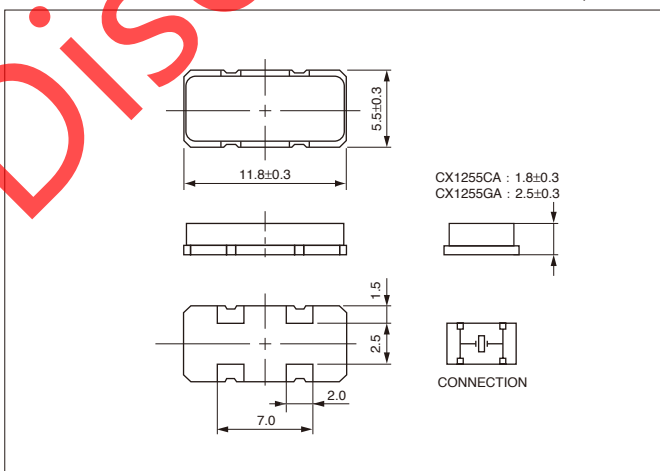
| Frequency Range   | Motional Series Resistance |
|-------------------|----------------------------|
| 3500 to 3999kHz   | 200Ω max.                  |
| 4000 to 7999kHz   | 180Ω max.                  |
| 8000 to 11999kHz  | 120Ω max.                  |
| 12000 to 20000kHz | 80Ω max.                   |

**Table2 Level of Drive**

| Frequency Range   | Level of Drive    |
|-------------------|-------------------|
| 3500 to 15999kHz  | 10μW (500μW max.) |
| 16000 to 20000kHz | 10μW (300μW max.) |

**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)

