



RoHS Compliant

Features

- Crystal unit for automotive electronics
- Small and low profile (5.0x3.2x1.3mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible

Applications

- Engine Control

How to Order

CX5032GA 16000 H0 Q S W ZZ
 ① ② ③ ④ ⑤ ⑥ ⑦

① Code

② Typical Frequencies

| Code | Freq.(kHz) | Code | Freq.(kHz) |
|-------|------------|-------|------------|
| 10000 | 10000.000 | 18000 | 18000.000 |
| 12000 | 12000.000 | 20000 | 20000.000 |
| 15000 | 15000.000 | 24000 | 24000.000 |
| 16000 | 16000.000 | 25000 | 25000.000 |

*Please inquire about frequencies other than the above.

③ Load Capacitance

| | |
|----|------|
| H0 | 12pF |
|----|------|

④ Frequency Stability

| | |
|---|--------------------------|
| Q | $\pm 100 \times 10^{-6}$ |
|---|--------------------------|

⑤ Operating Temperature Range

| | |
|---|-----------------|
| S | -40°C to +125°C |
|---|-----------------|

⑥ Frequency Temperature Stability

| | |
|---|--------------------------|
| W | $\pm 200 \times 10^{-6}$ |
|---|--------------------------|

⑦ Special

| | |
|----|----------------------|
| ZZ | Custom Specification |
|----|----------------------|

Specifications

| Items | Symbol | Specification | Units | Remarks |
|---------------------------------|------------------|------------------|------------------|---------------------------------------|
| Frequency Range | f _{nom} | 9843.75 to 40000 | kHz | |
| Overtone Order | OT | Fundamental | — | |
| Frequency Tolerance | f _{tol} | ± 100 | $\times 10^{-6}$ | @ 25°C |
| Frequency Temp. Characteristics | f _{tem} | ± 200 | $\times 10^{-6}$ | ref.@ 25°C Over Operating Temp. Range |
| Motional Series Resistance | R1 | Table 1 | ohm | |
| Level of Drive | DL | Table 2 | μ W | |
| Load Capacitance | CL | 12 | pF | |
| Operating Temp. Range | T _{use} | -40 to +125 | °C | |
| Storage Temp. Range | T _{stg} | -40 to +150 | °C | |

* Please inquire about specifications other than the above.

Table1 Motional Series Resistances

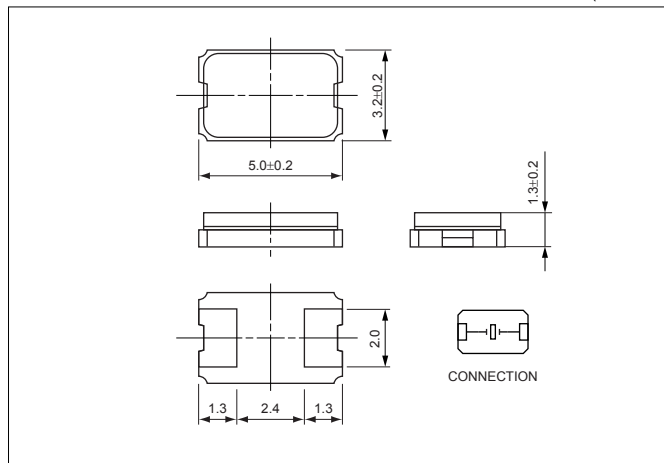
| Frequency Range | Motional Series Resistance | Units |
|---------------------|----------------------------|-------|
| 9843.75 to 11999kHz | 200 | ohm |
| 12000 to 13999kHz | 150 | |
| 14000 to 29999kHz | 100 | |
| 30000 to 40000kHz | 50 | |

Table2 Level of Drive

| Frequency Range | Level of Drive | Units |
|---------------------|----------------|---------|
| 9843.75 to 15999kHz | 10 (500 max.) | μ W |
| 16000 to 24999kHz | 10 (300 max.) | |
| 25000 to 40000kHz | 10 (100 max.) | |

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)

