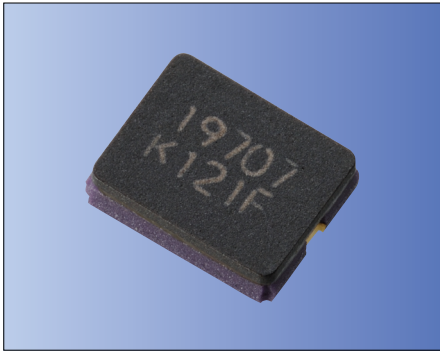


3.2×2.5mm for Automotive






### Features

- Crystal unit for automotive electronics
- Improved solderability
- Small and low profile (3.2×2.5×0.85mm)
- Ceramic package
- Reflow compatible
- Acceptable heat cycle solder junction for 3000 cycles (−40 to +125°C)

### Applications

- ECU
- TPMS
- High-Speed Automotive Network

### How to Order

**CX3225GA** **16000** **D0** **P** **T** **V** **□□**  
 ① ② ③ ④ ⑤ ⑥ ⑦

|                           |                               |
|---------------------------|-------------------------------|
| ①Series                   | ②Frequency                    |
| ③Load Capacitance         | ④Frequency Tolerance          |
| <b>D0</b> 8 pF            | <b>P</b> ±50×10 <sup>−6</sup> |
| ⑤Operating Temp. Range    | ⑥Frequency Temp. Stability    |
| <b>TV</b> −40 to +150°C   | ±150×10 <sup>−6</sup>         |
| ⑦Individual Specification |                               |

Packaging (Tape & Reel 3000 pcs./ reel)

### Specifications

| Item                            | Symbol           | Specification         | Unit              | Remarks                                      |
|---------------------------------|------------------|-----------------------|-------------------|----------------------------------------------|
| Frequency Range                 | f <sub>nom</sub> | 8, 12, 16, 20, 25, 40 | MHz               | 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 <sub>tol</sub> | ±50                   | ×10 <sup>−6</sup> | 25°C±3°C                                     |
| Motional Series Resistance      | R1               | Table 1               | ohm               |                                              |
| Drive Level                     | DL               | 10μW(200μW max.)      | 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> | ±150                  | ×10 <sup>−6</sup> | Freq. deviation from the value at 25°C       |

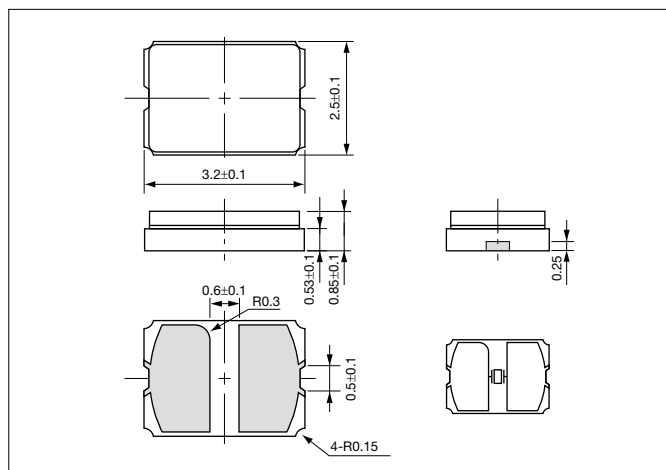
Please contact us for other specifications.

**Table 1 Motional Series Resistance** Please contact us for other frequency range.

| Frequency | Motional Series Resistance |
|-----------|----------------------------|
| 8MHz      | 500 Ω max.                 |
| 12MHz     | 200 Ω max.                 |
| 20MHz     | 100 Ω max.                 |

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

