

# Crystal Units

## Surface Mount Type CX5032GB (CX-53F)



5.0×3.2mm for Consumer Products



RoHS Compliant

### Features

- Crystal unit for Consumer Products
- Small and low profile (5.0×3.2×1.0mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible

### Applications

- Digital Electronics
- Consumer Products
- Car audio and accessories

### How to Order

CX5032GB 27000 □□ □□ □□ □□

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series ② Frequency  
 ③ Load Capacitance ④ Frequency Stability  
**H0** 12 pF Std. **P**  $\pm 50 \times 10^{-6}$  Std.  
 ⑤ Operating Temp. Range ⑥ Frequency Temp. Stability  
**ES** -10 to +70°C  $\pm 50 \times 10^{-6}$  Std.  
 ⑦ Individual Specification... Std.Spec. as "ZZ"

### Specifications

| Item                            | Symbol           | Specification | Units             | Remarks                                      |
|---------------------------------|------------------|---------------|-------------------|----------------------------------------------|
| Frequency Range                 | f <sub>nom</sub> | 8000 to 54000 | kHz               |                                              |
| Overtone Order                  | OT               | Fundamental   | —                 |                                              |
| Load Capacitance                | CL               | 12            | pF                |                                              |
| Frequency Stability             | f <sub>tol</sub> | ±50           | ×10 <sup>-6</sup> | @ 25°C                                       |
| Motional Series Resistance      | R1               | Table 1       | ohm               |                                              |
| Drive Level                     | DL               | Table 2       | μW                |                                              |
| Operating Temp. Range           | T <sub>use</sub> | -10 to +70    | °C                |                                              |
| Storage Temp. Range             | T <sub>stg</sub> | -40 to +85    | °C                |                                              |
| Frequency Temp. Characteristics | f <sub>tem</sub> | ±50           | ×10 <sup>-6</sup> | ref. @ 25°C over operating temperature range |

\* Please contact us for other specifications.

### Typical Frequencies and Part Numbers

| Frequency (kHz) | Standard Part Number |
|-----------------|----------------------|
| 10000.000       | CX5032GB10000H0PESZZ |
| 12000.000       | CX5032GB12000H0PESZZ |
| 14318.180       | CX5032GB14318H0PESZZ |
| 14745.600       | CX5032GB14745H0PESZZ |
| 16934.400       | CX5032GB16934H0PESZZ |
| 18432.000       | CX5032GB18432H0PESZZ |
| 22579.000       | CX5032GB22579H0PESZZ |
| 24000.000       | CX5032GB24000H0PESZZ |
| 24545.450       | CX5032GB24545H0PESZZ |
| 24576.000       | CX5032GB24576H0PESZZ |
| 27000.000       | CX5032GB27000H0PESZZ |
| 36000.000       | CX5032GB36000H0PESZZ |
| 48000.000       | CX5032GB48000H0PESZZ |
| 54000.000       | CX5032GB54000H0PESZZ |

Table1 Motional Series Resistance

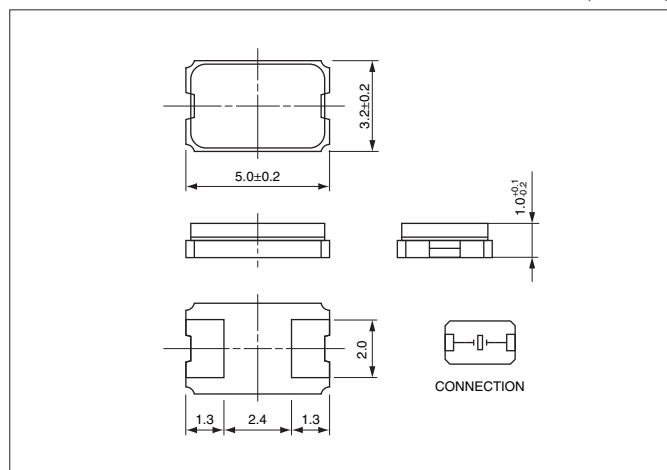
| Frequency Range   | Motional Series Resistance | Units |
|-------------------|----------------------------|-------|
| 8000 to 9999kHz   | 300 max.                   | ohm   |
| 10000 to 11999kHz | 200 max.                   |       |
| 12000 to 13999kHz | 150 max.                   |       |
| 14000 to 29999kHz | 100 max.                   |       |
| 30000 to 54000kHz | 50 max.                    |       |

Table2 Level of Drive

| Frequency Range   | Drive Level   | Units |
|-------------------|---------------|-------|
| 8000 to 15999kHz  | 10 (500 max.) | μW    |
| 16000 to 24999kHz | 10 (300 max.) |       |
| 25000 to 54000kHz | 10 (100 max.) |       |

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

