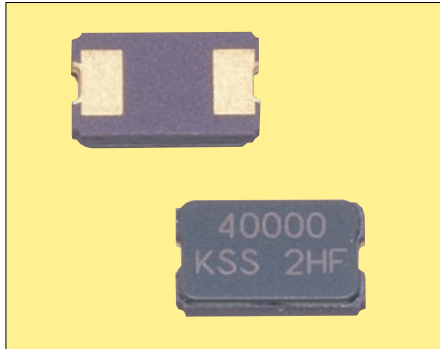




# Crystal Units

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

5.0×3.2mm for Audio & Visual, Office Equipment



RoHS Compliant

### Features

- Crystal unit for audio-visual, office equipment
- Small and low profile (5.0x3.2x1.0mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible

### Applications

- Digital Electronics
- Audio-Visual, Office Equipment

### How to Order

CX5032GB 48000 H0 P E S ZZ  
① ② ③ ④ ⑤ ⑥ ⑦

① Code

② Typical Frequencies

| Code  | Freq.(kHz) | Code  | Freq.(kHz) |
|-------|------------|-------|------------|
| 10000 | 10000.000  | 24000 | 24000.000  |
| 12000 | 12000.000  | 24545 | 24545.450  |
| 14318 | 14318.180  | 24576 | 24576.000  |
| 14745 | 14745.600  | 27000 | 27000.000  |
| 16934 | 16934.400  | 36000 | 36000.000  |
| 18432 | 18432.000  | 48000 | 48000.000  |
| 22579 | 22579.200  | 54000 | 54000.000  |

\*Please inquire about frequencies other than the above.

③ Load Capacitance

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

④ Frequency Stability

|   |                         |
|---|-------------------------|
| P | $\pm 50 \times 10^{-6}$ |
|---|-------------------------|

⑤ Operating Temperature Range

|   |                |
|---|----------------|
| E | -10°C to +70°C |
|---|----------------|

⑥ Frequency Temperature Stability

|   |                         |
|---|-------------------------|
| S | $\pm 50 \times 10^{-6}$ |
|---|-------------------------|

⑦ Special

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

### Specifications

| Items                           | Symbol           | Specification    | Units             | Remarks                                |
|---------------------------------|------------------|------------------|-------------------|----------------------------------------|
| Frequency Range                 | f <sub>nom</sub> | 9843.75 to 54000 | kHz               |                                        |
| Overtone Order                  | OT               | Fundamental      | —                 |                                        |
| Frequency Tolerance             | f <sub>tol</sub> | ±50              | ×10 <sup>-6</sup> | @ 25°C                                 |
| Frequency Temp. Characteristics | f <sub>tem</sub> | ±50              | ×10 <sup>-6</sup> | ref. @ 25°C Over Operating Temp. Range |
| Motional Series Resistance      | R1               | Table 1          | ohm               |                                        |
| Level of Drive                  | DL               | Table 2          | μW                |                                        |
| Load Capacitance                | CL               | 12               | pF                |                                        |
| Operating Temp. Range           | T <sub>use</sub> | -10 to +70       | °C                |                                        |
| Storage Temp. Range             | T <sub>stg</sub> | -40 to +85       | °C                |                                        |

\* Please inquire about specifications other than the above.

Table1 Motional Series Resistances

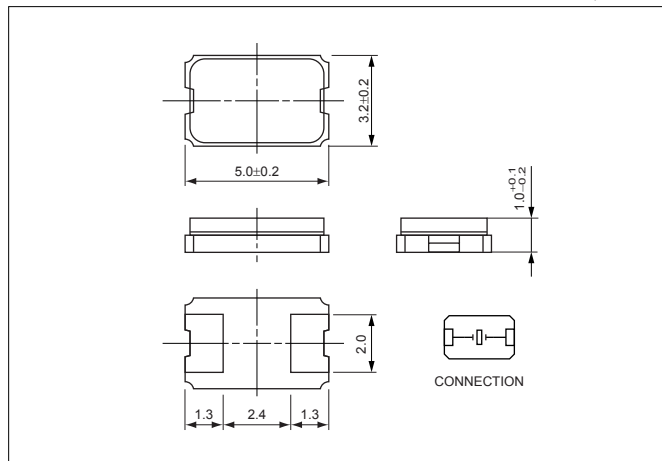
| Frequency Range     | Motional Series Resistance | Units |
|---------------------|----------------------------|-------|
| 9843.75 to 11999kHz | 200                        | ohm   |
| 12000 to 13999kHz   | 150                        |       |
| 14000 to 29999kHz   | 100                        |       |
| 30000 to 54000kHz   | 50                         |       |

Table2 Level of Drive

| Frequency Range     | Level of Drive | Units |
|---------------------|----------------|-------|
| 9843.75 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)

