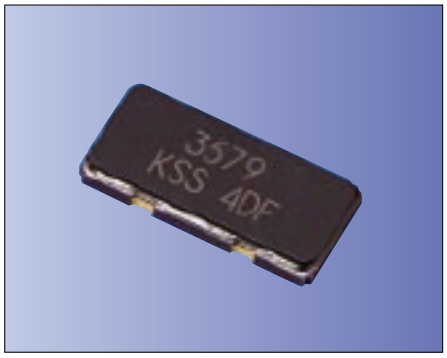
# Crystal Units
# Surface Mount Type CX1255GB (CX-5FD)

KYOCERA

11.8×5.5mm for Consumer Products




RoHS Compliant

## Features

- Crystal unit for Consumer Products
- Small and low profile (11.8×5.5×1.8mm)
- Ceramic package
- Reflow compatible

## Applications

- Digital Electronics
- Consumer Products
- Car audio and accessories

## How to Order

CX1255GB 04000 □□ □ □ □ □□
① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency
③ Load Capacitance ④ Frequency Stability

| | | | | | |
|---|---|---|---|---|---|
| H0 | 12 pF | Std. | P | $\pm50\times10^{-6}$ | Std. |

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

| | | | |
|---|---|---|---|
| ES | −10 to +70°C | $\pm50\times10^{-6}$ | Std. |

⑦ Individual Specification

Packaging (Tape & Reel 1000 pcs./ reel)

## Specifications

| Item | Symbol | Specification | Units | Remarks |
|---|---|---|---|---|
| Frequency Range | $f_{nom}$ | 3500 to 28999 | kHz | |
| Overtone Order | OT | Fundamental | — | |
| Load Capacitance | CL | 12 | pF | |
| Frequency Stability | $f_{tol}$ | ±50 | $\times10^{-6}$ | 25°C±3°C |
| Motional Series Resistance | R1 | Table 1 | ohm | |
| Drive Level | DL | Table 2 | μW | |
| Operating Temp. Range | $T_{use}$ | −10 to +70 | °C | |
| Storage Temp. Range | $T_{stg}$ | −40 to +85 | °C | |
| Frequency Temp. Characteristics | $f_{tem}$ | ±50 | $\times10^{-6}$ | Freq. deviation from the value at 25°C |

• Please contact us for other specifications.

Typical Frequencies and Part Numbers

| Frequency (kHz) | Part Number |
|---|---|
| 3579.545 | CX1255GB03579H0PESZ1 |
| 3686.400 | CX1255GB03686H0PESZ1 |
| 4000.000 | CX1255GB04000H0PESZ1 |
| 6000.000 | CX1255GB06000H0PESZ1 |
| 8000.000 | CX1255GB08000H0PESZ1 |
| 12000.000 | CX1255GB12000H0PESZ1 |
| 14318.180 | CX1255GB14318H0PESZ1 |
| 16000.000 | CX1255GB16000H0PESZ1 |
| 16934.400 | CX1255GB16934H0PESZ1 |
| 19660.800 | CX1255GB19660H0PESZ1 |
| 20000.000 | CX1255GB20000H0PESZ1 |

## Table1 Motional Series Resistance

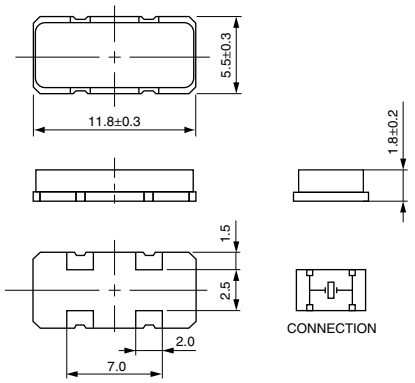
| Frequency Range | Motional Series Resistance |
|---|---|
| 3500 to 3999kHz | 200Ω max. |
| 4000 to 7999kHz | 180Ω max. |
| 8000 to 11999kHz | 120Ω max. |
| 12000 to 28999kHz | 80Ω max. |

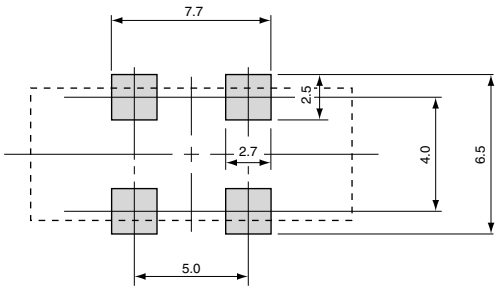
## Table2 Level of Drive

| Frequency Range | Level of Drive |
|---|---|
| 3500 to 15999kHz | 10μW (500μW max.) |
| 16000 to 24999kHz | 10μW (300μW max.) |
| 25000 to 28999kHz | 10μW (100μW max.) |

## Dimensions

(Unit: mm)




## Recommended Land Pattern

(Unit: mm)