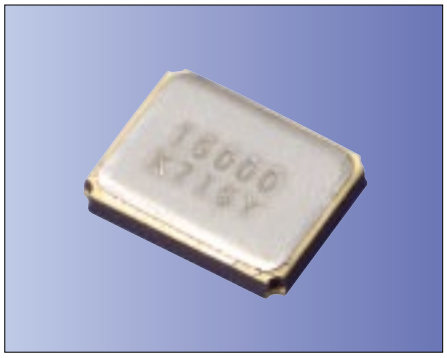
# Crystal Units
# Surface Mount Type CX3225SB (CX-101F)

KYOCERA

3.2×2.5mm for Mobile Communications



RoHS Compliant

## Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability
- Small and low profile

## Applications

- Mobile Communications, Bluetooth®, Wireless LAN

* Bluetooth® Trademarks are owned by Bluetooth SIG Inc.

## How to Order

CX3225SB 26000 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series
② Frequency
③ Load Capacitance
④ Frequency Stability

| | | |
|---|---|---|
| B0 | 6 pF | — |
| D0 | 8 pF | Std. |
| F0 | 10 pF | — |

| | | |
|---|---|---|
| F | ±10×10⁻⁶ | Std. |
| G | ±15×10⁻⁶ | — |

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

| | | | |
|---|---|---|---|
| FF | −20 to +70°C | ±10×10⁻⁶ | — |
| LJ | −30 to +85°C | ±15×10⁻⁶ | Std. |

⑦ Individual Specification

Packaging (Tape & Reel 3000/ 1000 pcs./ reel)

## Specifications

| Item | Symbol | Specification | Units | Remarks |
|---|---|---|---|---|
| Frequency Range | $f_{nom}$ | 12000 to 54000 | kHz | |
| Overtone Order | OT | Fundamental | — | |
| Load Capacitance | CL | 8 | pF | |
| Frequency Stability | $f_{tol}$ | ±10 | ×10⁻⁶ | 25°C±3°C |
| Motional Series Resistance | R1 | Table 1 | ohm | |
| Drive Level | DL | Table 2 | µW | |
| Operating Temp. Range | $T_{use}$ | −30 to +85 | °C | |
| Storage Temp. Range | $T_{stg}$ | −40 to +85 | °C | |
| Frequency Temp. Characteristics | $f_{tem}$ | ±15 | ×10⁻⁶ | Freq. deviation from the value at 25°C |

• Please contact us for other specifications.

Typical Frequencies and Part Numbers

| Frequency (kHz) | Part Number |
|---|---|
| 12000.000 | CX3225SB12000D0FLJZ1 |
| 13000.000 | CX3225SB13000D0FLJZ1 |
| 13560.000 | CX3225SB13560D0FLJZ1 |
| 16000.000 | CX3225SB16000D0FLJZ1 |
| 19200.000 | CX3225SB19200D0FLJZ1 |
| 20000.000 | CX3225SB20000D0FLJZ1 |
| 26000.000 | CX3225SB26000D0FLJZ1 |
| 32000.000 | CX3225SB32000D0FLJZ1 |
| 38400.000 | CX3225SB38400D0FLJZ1 |
| 40000.000 | CX3225SB40000D0FLJZ1 |

## Table1 Motional Series Resistance

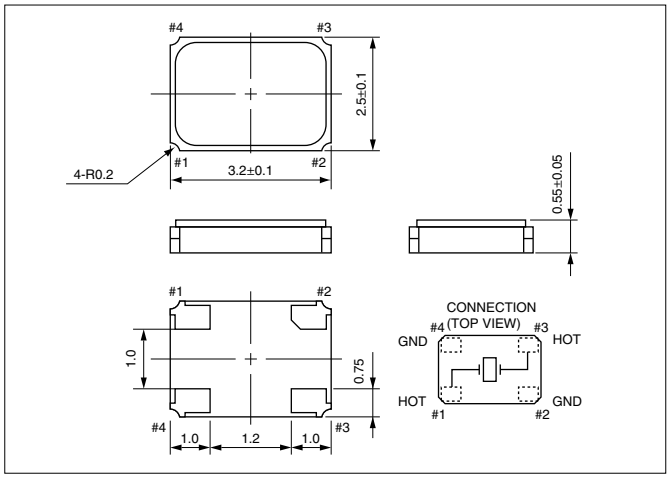
| Frequency Range | Motional Series Resistance |
|---|---|
| 12000 to 12999kHz | 200Ω max. |
| 13000 to 14999kHz | 150Ω max. |
| 15000 to 15999kHz | 100Ω max. |
| 16000 to 19999kHz | 80Ω max. |
| 20000 to 26999kHz | 50Ω max. |
| 27000 to 54000kHz | 40Ω max. |

## Table2 Level of Drive

| Frequency Range | Level of Drive |
|---|---|
| 12000 to 54000kHz | 10µW (100µW max.) |

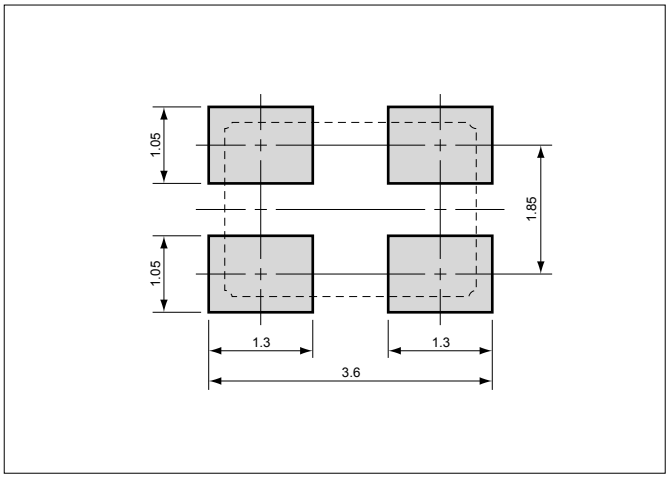
## Dimensions

(Unit: mm)




## Recommended Land Pattern

(Unit: mm)

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