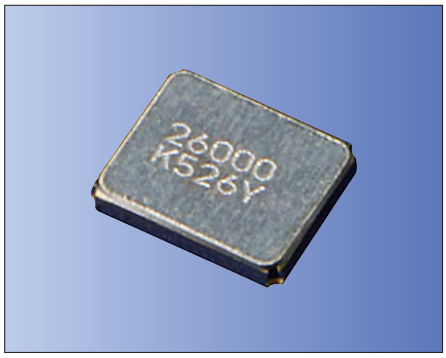
# Crystal Units
# Surface Mount Type CX2520SB

KYOCERA

2.5×2.0mm for Mobile Communications




Pb Free RoHS Compliant

## Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability
- Low Profile (0.45mm)

## Applications

- Mobile Communications, Bluetooth, Wireless LAN

## How to Order

CX2520SB 26000 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency

③ Load Capacitance

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

④ Frequency Stability

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

⑤Operating Temp. Range ⑥Frequency Temp. Stability

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

⑦ Individual Specification

## Specifications

| Item | Symbol | Specification | Units | Remarks |
|---|---|---|---|---|
| Frequency Range | $f_{nom}$ | 13560 to 60000 | 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 |
|---|---|
| 13560.000 | CX2520SB13560D0FLJZ1 |
| 16000.000 | CX2520SB16000D0FLJZ1 |
| 18000.000 | CX2520SB18000D0FLJZ1 |
| 19200.000 | CX2520SB19200D0FLJZ1 |
| 24000.000 | CX2520SB24000D0FLJZ1 |
| 26000.000 | CX2520SB26000D0FLJZ1 |
| 27120.000 | CX2520SB27120D0FLJZ1 |
| 32000.000 | CX2520SB32000D0FLJZ1 |
| 38400.000 | CX2520SB38400D0FLJZ1 |
| 40000.000 | CX2520SB40000D0FLJZ1 |
| 44000.000 | CX2520SB44000D0FLJZ1 |
| 54000.000 | CX2520SB54000D0FLJZ1 |

## Table1 Motional Series Resistance

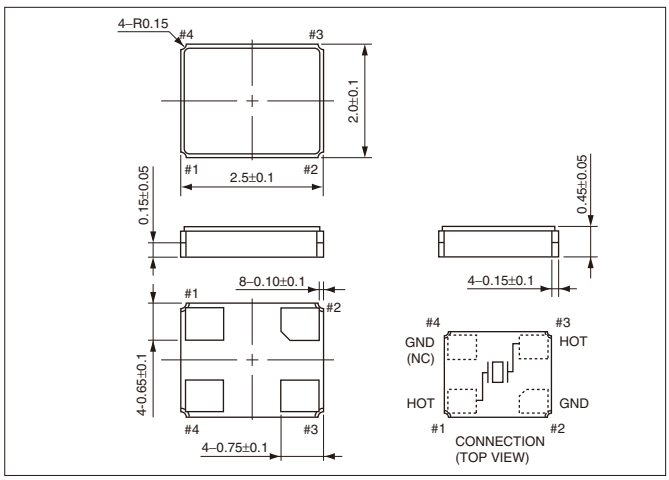
| Frequency Range | Motional Series Resistance |
|---|---|
| 13560 to 15999kHz | 200Ω max. |
| 16000 to 19199kHz | 100Ω max. |
| 19200 to 25999kHz | 80Ω max. |
| 26000 to 29999kHz | 60Ω max. |
| 30000 to 60000kHz | 50Ω max. |

## Table2 Level of Drive

| Frequency Range | Level of Drive |
|---|---|
| 13560 to 60000kHz | 10μW (100μW max.) |

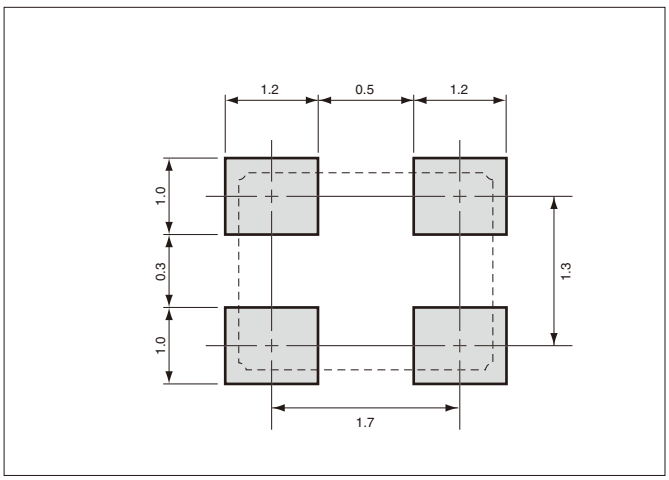
## Dimensions

(Unit: mm)




## Recommended Land Pattern

(Unit: mm)

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