

2.5×2.0mm for Consumer Products/ Mobile Communications/ Automotive



RoHS Compliant

### Features

- Crystal unit for Consumer Products
- Ceramic package
- Reflow compatible
- AEC-Q200 qualified  
(Please contact us for Automotive use)

### Applications

- Digital Electronics
- Consumer Products
- Mobile Communications, Bluetooth®, Wireless LAN
- Car Electronics

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### How to Order

CX2520DB 27000

- ① Series  
② Frequency  
③ Load Capacitance ④ Frequency Tolerance  
⑤ Operating Temp. Range ⑥ Frequency Temp. Stability  
⑦ Individual Specification

|           |               |          |                      |
|-----------|---------------|----------|----------------------|
| <b>D0</b> | 8 pF          | <b>G</b> | ±15×10 <sup>-6</sup> |
| <b>EJ</b> | -10 to +70°C  |          | ±15×10 <sup>-6</sup> |
| <b>LJ</b> | -30 to +85°C  |          | ±15×10 <sup>-6</sup> |
| <b>SS</b> | -40 to +125°C |          | ±50×10 <sup>-6</sup> |

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

### Specifications

| Item                            | Symbol           | Specification                           | Units             | Remarks                                       |
|---------------------------------|------------------|---|-------------------|---|
| Frequency Range                 | f <sub>nom</sub> | 12000 to 54000                          | kHz               |   |
| Overtone Order                  | OT               | Fundamental                             | —                 |   |
| Load Capacitance                | CL               | 8                                       | pF                | Please contact us for other Load Capacitance. |
| Frequency Tolerance             | f <sub>tol</sub> | ±15                                     | ×10 <sup>-6</sup> | 25°C±3°C                                      |
| Motional Series Resistance      | R1               | Table 1                                 | ohm               |   |
| Drive Level                     | DL               | Table 2                                 | μW                |   |
| Operating Temp. Range           | T <sub>use</sub> | -10 to +70    -30 to +85    -40 to +125 | °C                |   |
| Storage Temp. Range             | T <sub>stg</sub> | -40 to +85    -40 to +125               | °C                |   |
| Frequency Temp. Characteristics | f <sub>tem</sub> | ±15    ±50                              | ×10 <sup>-6</sup> | Freq. deviation from the value at 25°C        |

Please contact us for other specifications.

### Table1 Motional Series Resistance

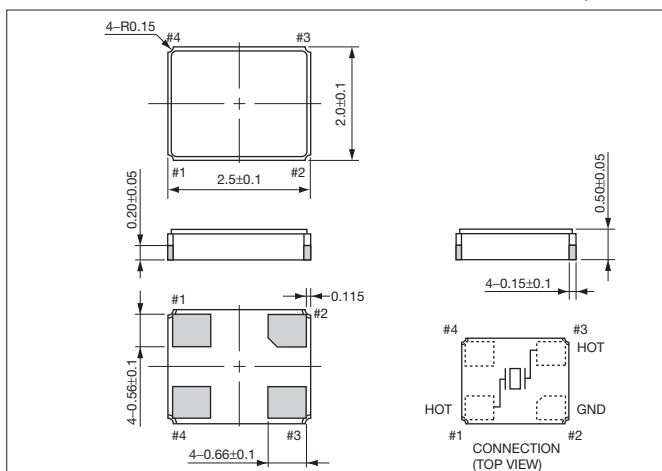
| Frequency Range                  | Motional Series Resistance |
|----------------------------------|----------------------------|
| 12000≤f <sub>nom</sub> <16000kHz | 150Ω max.                  |
| 16000≤f <sub>nom</sub> <26000kHz | 80Ω max.                   |
| 26000≤f <sub>nom</sub> <30000kHz | 60Ω max.                   |
| 30000≤f <sub>nom</sub> ≤54000kHz | 50Ω max.                   |

### Table2 Level of Drive

| Frequency Range                  | Level of Drive    |
|----------------------------------|-------------------|
| 12000≤f <sub>nom</sub> ≤54000kHz | 10μW (100μW max.) |

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

