

3.2×2.5mm for Consumer Products/ Mobile Communications



RoHS Compliant

### Features

- Crystal unit for Consumer Products
- Miniature and low profile (3.2×2.5×0.55mm)
- Ceramic package
- Reflow compatible

### Applications

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

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### How to Order

CX3225SB 12000 ☐ ☐ ☐ ☐ ☐ ☐

- 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> |

Packaging (Tape & Reel 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 | °C                |                                               |
| Storage Temp. Range             | T <sub>stg</sub> | -40 to +85            | °C                |                                               |
| Frequency Temp. Characteristics | f <sub>tem</sub> | ±15                   | ×10 <sup>-6</sup> | Freq. deviation from the value at 25°C        |

Please contact us for other specifications.

Table1 Motional Series Resistance

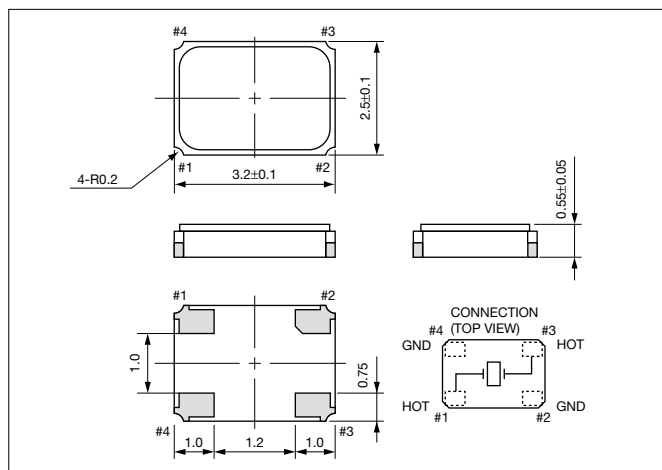
| Frequency Range                  | Motional Series Resistance |
|----------------------------------|----------------------------|
| 12000≤f <sub>nom</sub> <13000kHz | 150Ω max.                  |
| 13000≤f <sub>nom</sub> <20000kHz | 80Ω max.                   |
| 20000≤f <sub>nom</sub> ≤54000kHz | 50Ω max.                   |

Table2 Level of Drive

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

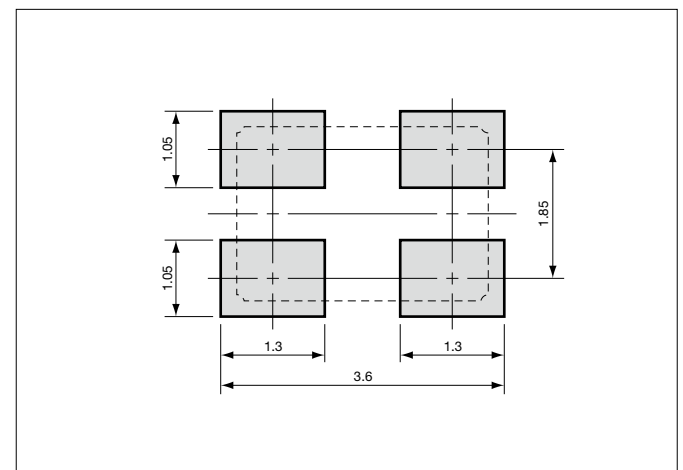
### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)



# Mouser Electronics

Authorized Distributor

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