



Pb Free

RoHS Conforming

**Features**

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage  $V_{DD}=3.3V$
- $\pm 25ppm$  available

**Table 1**

| Stability Code | Stability (ppm) | $T_{OPR}$ (°C)      | Note                          |
|----------------|-----------------|---------------------|-------------------------------|
|                |                 |                     |                               |
| S              | $\pm 30$        | -10 to +70 (STD)    | With only certain frequencies |
| U              | $\pm 25$        |                     |                               |
| F              | $\pm 100$       | -40 to +85 (Extend) | With only certain frequencies |
| G              | $\pm 50$        |                     |                               |

**How to Order**

K25-3C 0 - S E 25.0000  
① ② ③ ④ ⑤

- ① Type(3.2x2.5 SMD, 3.3V)
- ② Frequency Stability Code(See Table1)
- ③ Duty Ratio(S: 45% to 55% STD)
- ④ Enable/Disable Function(STD)
- ⑤ Oscillation Frequency(Ex.: 25.0000MHz)

Packaging(Tape & Reel 2,000pcs/reel)

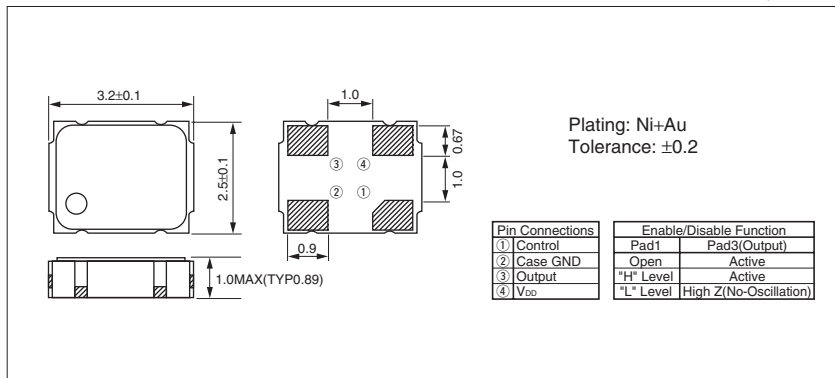
**Specifications**

| Item  | Symbol    | Conditions   | Min.              | Max.              | Units   |
|---|-----------|--|-------------------|-------------------|---------|
| Output Frequency Range  | $F_{OUT}$ |  | 1                 | 50                | MHz     |
| Frequency Stability   | $F_{SBY}$ | Overall conditions:<br>initial tolerance, operating temperature range, rated power supply voltage change, load change, aging(1year @25°C), shock and vibration | -25<br>-30<br>-50 | +25<br>+30<br>+50 | ppm     |
| Storage Temperature Range                                       | $T_{STG}$ |  | -55               | +125              | °C      |
| Operating Temperature Range                                     | $T_{OPR}$ | Standard<br>Extend(option)   | -10<br>-40        | +70<br>+85        |         |
| Max. Supply Voltage   | —         |  | -0.5              | 7.0               | Volt    |
| Supply Voltage  | $V_{DD}$  | Stability: $\pm 50ppm$ , $\pm 30ppm$ , $\pm 100ppm$ (Ext Temp)<br>Stability: $\pm 25ppm$ , $\pm 50ppm$ (Ext Temp)  | 2.97<br>3.14      | 3.63<br>3.46      |         |
| Current Consumption(Maximum Loaded)                             | $I_{DD}$  | @50MHz   | —                 | 8                 | mA      |
| Standby Current   | $I_{ST}$  | Standby Function   | —                 | 10                | $\mu A$ |
| Duty Ratio(Symmetry)  | SYM       | @50% $V_{DD}$  | 45                | 55                | %       |
| Rise/Fall Time<br>(10% $V_{DD}$ to 90% $V_{DD}$ Maximum Loaded) | $T_r/T_f$ |  | —                 | 5                 | nS      |
| Output Voltage-"L"  | $V_{OL}$  | $I_{OL}=4mA$   | —                 | 10% $V_{DD}$      | Volt    |
| Output Voltage-"H"  | $V_{OH}$  | $I_{OH}=-4mA$  | 90% $V_{DD}$      | —                 |         |
| Output Load   | CL        | CMOS   | —                 | 15                | pF      |
| Input Voltage Range   | $V_{IN}$  |  | 0                 | $V_{DD}$          | Volt    |
| Input Voltage-"L"   | $V_{IL}$  |  | —                 | 30% $V_{DD}$      |         |
| Input Voltage-"H"   | $V_{IH}$  |  | 70% $V_{DD}$      | —                 |         |
| Output Disable Time   | —         |  | —                 | 150               | nS      |
| Output Enable Time  | —         |  | —                 | 5                 | mS      |
| Start-up Time   | ST        | @Minimum operating Voltage to be 0sec.   | —                 | 10                | mS      |

Note: Please contact us for inquire about extended operating temperature range, available frequencies and other conditions.  
All electrical characteristics are defined at the maximum load and operating temperature range.

**Dimensions**

(Unit : mm)



**Recommended Land Pattern**

(Unit : mm)

