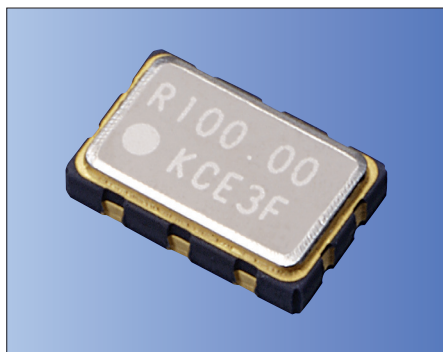




LV-PECL/ 3.3V or 2.5V/ 5.0×3.2mm



RoHS Compliant

**Features**

- Miniature ceramic package
- Highly reliable with seam welding
- LV-PECL output
- Supply voltage Vcc=3.3V, 2.5V
- ±25×10<sup>-6</sup> available
- Low Phase Noise

**Table 1**

| Freq. Tol. Code | × 10 <sup>-6</sup> | Operating Temperature Range (°C) | Note   |
|-----------------|--------------------|----------------------------------|--|
| 0               | ± 50               | 0 to +70                         | Standard specifications                      |
| S               | ± 30               |                                  |  |
| U               | ± 25               | -40 to +85                       | Please contact us for available frequencies. |
| F               | ±100               |                                  |  |
| G               | ± 50               |                                  |  |
| 6               | ± 50               | -40 to +105                      |  |

**How to Order**

**KC5032P 125.000 P □ □ J 00**  
① ② ③ ④ ⑤ ⑥ ⑦

- ①Series
- ②Output Frequency
- ③Output Type (LV-PECL)
- ④Supply Voltage (3 : 3.3V or 2 : 2.5V)
- ⑤Frequency Tolerance (See Table 1)
- ⑥Symmetry/ INH Function  
J : 45/ 55%
- ⑦Individual Specification (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

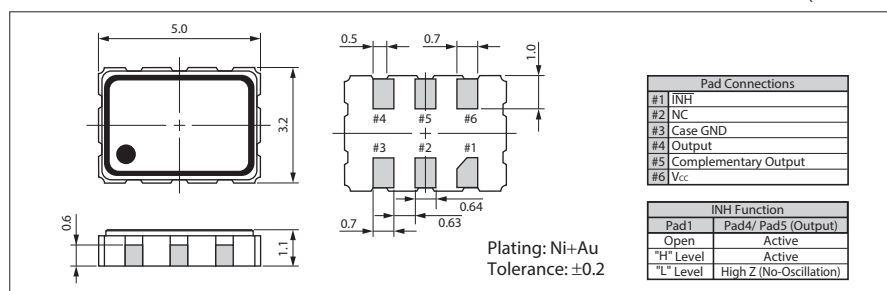
**Specifications**

| Item  | Symbol             | Conditions  | Specifications                                   |                | Unit              |
|---|--------------------|---|--|----------------|-------------------|
|   |                    |   | KC5032P-P2                                       | KC5032P-P3     |                   |
| Output Frequency Range <sup>Note1</sup>                                     | f <sub>o</sub>     |   | 25 to 175  |                | MHz               |
| Frequency Tolerance   | f <sub>tol</sub>   | Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration | ±50/ -40 to +105°C                               |                | ×10 <sup>-6</sup> |
|   |                    |   | ±100/ -40 to +85°C                               |                |                   |
|   |                    |   | ±50/ -40 to +85°C                                |                |                   |
|   |                    |   | ±50/ 0 to +70°C                                  |                |                   |
|   |                    |   | ±30/ 0 to +70°C                                  |                |                   |
| Storage Temperature Range   | T <sub>stg</sub>   |   | -55 to +125                                      |                | °C                |
| Operating Temperature Range   | T <sub>use</sub>   | Standard Specifications   | 0 to +70/ -40 to +85                             |                | °C                |
|   |                    | Extend (Option)   | -40 to +105                                      |                |                   |
| Max. Supply Voltage   | —                  |   | -0.5 to +5.0                                     |                | V                 |
| Supply Voltage  | V <sub>cc</sub>    |   | +2.375 to +2.625                                 | +2.97 to +3.63 | V                 |
| Current Consumption   | I <sub>cc</sub>    |   | 70 max.  |                | mA                |
| Stand-by Current  | I <sub>std</sub>   |   | 20 max.  |                | µA                |
| Symmetry  | SYM                | 50ohm @crossing point   | 50±5   |                | %                 |
| Rise/ Fall Time (20% V <sub>cc</sub> to 80% V <sub>cc</sub> Maximum Loaded) | Tr/ Tf             | 50ohm   | 0.6 max.   |                | ns                |
| Low Level Output Voltage <sup>Note2</sup>                                   | V <sub>OL</sub>    |   | V <sub>cc</sub> -1.810 to V <sub>cc</sub> -1.620 |                | V                 |
| High Level Output Voltage <sup>Note2</sup>                                  | V <sub>OH</sub>    |   | V <sub>cc</sub> -1.025 to V <sub>cc</sub> -0.880 |                | V                 |
| Output Load   | RL                 |   | 50   |                | ohm               |
| Input Voltage Range   | V <sub>IN</sub>    |   | 0 to V <sub>cc</sub>                             |                |                   |
| Low Level Input Voltage   | V <sub>IL</sub>    |   | 30% V <sub>cc</sub> max.                         |                | V                 |
| High Level Input Voltage  | V <sub>IH</sub>    |   | 70% V <sub>cc</sub> min.                         |                | V                 |
| Disable Time  | t <sub>dis</sub>   |   | 150 max.   |                | ns                |
| Enable Time   | t <sub>ena</sub>   |   | 10 max.  |                | ms                |
| Start-up Time   | t <sub>str</sub>   | @Minimum operating voltage to be 0 sec.   | 10 max.  |                | ms                |
| Deterministic Jitter  | DJ                 | Measured with Wavecrest SIA-3000  | 2 max.   |                | ps                |
| 1 Sigma Jitter  | J <sub>sigma</sub> |   | 4 max.   |                | ps                |
| Peak to Peak Jitter   | J <sub>PK-PK</sub> |   | 30 max.  |                | ps                |
| Phase Jitter  | J <sub>Phase</sub> | @156.25MHz<br>V <sub>cc</sub> =3.3V   | BW : 12kHz to 20MHz                              | 0.3 max.       | ps                |

Note : All electrical characteristics are defined at the maximum load and operating temperature range.  
Note1: Please contact us for inquiry about operating temperature range, available frequencies and other conditions.  
Note2: DC characteristic

**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)

