



Pb Free

RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- LV-PECL output
- Supply voltage $V_{DD}=2.5V$
- $\pm 25 \times 10^{-6}$ available

Table 1

| Freq. Tol. Code | Tol. $\times 10^{-6}$ | Operating Temperature Range (°C) | Note |
|-----------------|-----------------------|----------------------------------|-------------------------------|
| 0 | ± 50 | 0 to +70 | Standard specifications |
| S | ± 30 | | |
| U | ± 25 | -40 to +85 | With only certain frequencies |
| F | ± 100 | | |
| G | ± 50 | | |

How to Order

KC5032P 125.000 P 2 0 E 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (5.0x3.2mm SMD)
- ② Output Frequency
- ③ Output Type (LV-PECL)
- ④ Supply Voltage (2.5V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ Enable Function (45/55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000pcs./reel)

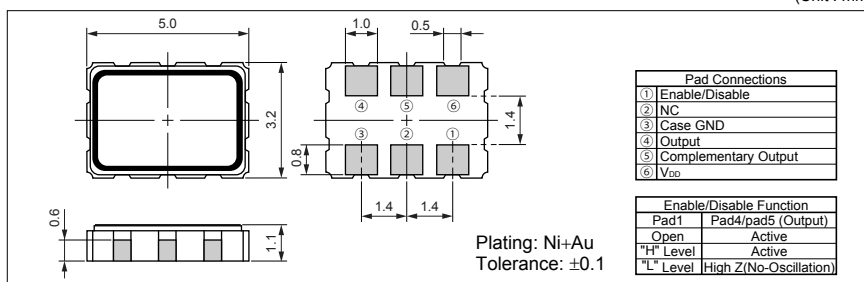
Specifications

| Item | Symbol | Conditions | Min. | Max. | Units | |
|--|--------------------------------|--|-------------------------------------|------------------------|-------|------------------|
| Output Frequency Range | F _o | | 75 | 170 | MHz | |
| Frequency Tolerance | F _{tol} | Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration | Op. Temp.: -40 to +85°C | -100 | +100 | $\times 10^{-6}$ |
| | | | Op. Temp.: 0 to +70°C/ -40 to +85°C | -50 | +50 | |
| | | | Op. Temp.: 0 to +70°C/ -40 to +85°C | -30 | +30 | |
| | | | Op. Temp.: 0 to +70°C | -25 | +25 | |
| Storage Temperature Range | T _{stg} | | -55 | +125 | °C | |
| Operating Temperature Range | T _{use} | Standard Specifications | 0 | +70 | °C | |
| | | Extend (Option) | -40 | +85 | | |
| Max. Supply Voltage | — | | -0.5 | +5 | V | |
| Supply Voltage | V _{DD} | | 2.375 | 2.625 | V | |
| Current Consumption | I _{DD} | | — | 90 | mA | |
| Stand-by Current | I _{std} | | — | 30 | μA | |
| Symmetry | SYM | 50 ohm @50% Output Swing | 45 | 55 | % | |
| Rise/Fall Time (20% V _{DD} to 80% V _{DD}) | T _r /T _f | 50 ohm | — | 0.6 | nS | |
| Output Voltage-"L" | V _{OL} | Op. Temp.: 0 to +85°C/ Typ. 0.800V | V _{DD} -1.810 | V _{DD} -1.405 | V | |
| | | Op. Temp.: -40 to 0°C/ Typ. 0.805V | V _{DD} -1.830 | V _{DD} -1.305 | | |
| Output Voltage-"H" | V _{OH} | Op. Temp.: 0 to +85°C/ Typ. 1.550V | V _{DD} -1.025 | V _{DD} -0.740 | V | |
| | | Op. Temp.: -40 to 0°C/ Typ. 1.495V | V _{DD} -1.085 | V _{DD} -0.880 | | |
| Output Load | L _{ECL} | LV-PECL Output | 50 | | ohm | |
| Input Voltage Range | V _{IN} | | 0 | V _{DD} | V | |
| Input Voltage-"L" | V _{IL} | | — | 30% V _{DD} | V | |
| Input Voltage-"H" | V _{IH} | | 70% V _{DD} | — | V | |
| Disable Time | — | | — | 150 | nS | |
| Enable Time | — | | — | 5 | mS | |
| Start-up Time | ST | @Minimum Operation Voltage to be 0 sec. | — | 10 | mS | |
| Deterministic Jitter (DJ) | DJ | Measured with Wavecrest DTS-2079 VIS/ 6.3.1 | — | 2 | pS | |
| 1Sigma jitter | 1sigma | | — | 4 | pS | |
| Peak to Peak Jitter | Pk-Pk | | — | 30 | pS | |

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

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)

