



Pb Free

RoHS Compliant

Features

- Low voltage 2.5V
- Low jitter
- LV-PECL output
- Operation at fundamental high frequency

Table 1

| Freq. Code | Tol. $\times 10^{-6}$ | Operating Temperature Range (°C) | Note |
|------------|-----------------------|----------------------------------|-------------------------|
| 1 | ± 100 | 0 to +70 | Standard specifications |

How to Order

KC7050S 155.520 P 2 1 E 00
 ① ② ③④⑤⑥ ⑦

- ① Type (7.0×5.0mm SMD)
- ② Output Frequency
- ③ Output Type (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)

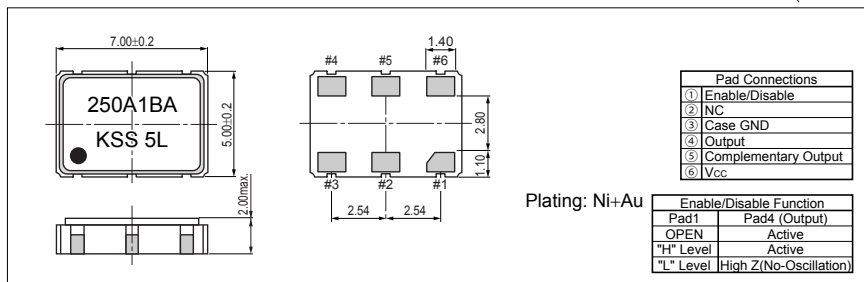
Specifications

| Item | Symbol | Conditions | Min. | Max. | Units |
|--|------------------|--|---------------------|---------------------|------------------|
| Output Frequency Range | Fo | | 50 | 700 | MHz |
| Frequency Tolerance | F _{tol} | Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration | -100 | +100 | $\times 10^{-6}$ |
| Storage Temperature Range | T _{stg} | | -55 | +125 | °C |
| Operating Temperature Range | T _{use} | Standard Specifications | 0 | +70 | °C |
| Max. Supply Voltage | — | | -0.5 | +5 | V |
| Supply Voltage | V _{CC} | | 2.38 | 2.62 | V |
| Current Consumption (Standard Loaded) | I _{CC} | | — | 60 | mA |
| Symmetry | SYM | 50MHz≤Fo≤350MHz | 45 | 55 | % |
| | | 350MHz<Fo≤700MHz | 40 | 60 | |
| Rise/ Fall Time (20% V _{CC} to 80% V _{CC} Standard Loaded) | Tr/Tf | 50MHz≤Fo≤400MHz | — | 600 | pS |
| | | 400MHz<Fo≤700MHz | — | 400 | |
| Output Voltage-"L" | V _{OL} | | — | 1.195 | V |
| Output Voltage-"H" | V _{OH} | | 1.415 | — | V |
| Output Load (PECL) | L _{ECL} | PECL 50Ω @Terminated V _{CC} -2V | 49.5 | 50.5 | ohm |
| Input Voltage Range | V _{IN} | | 0 | V _{CC} | V |
| Input Voltage-"L" | V _{IL} | | — | 30% V _{CC} | V |
| Input Voltage-"H" | V _{IH} | | 70% V _{CC} | — | V |
| Disable Time | — | | — | 200 | nS |
| Enable Time | — | | — | 2 | 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 | 0.2 typ. | | ps |
| 1 Sigma Jitter | 1 Sigma | | 3 typ. | | ps |
| Peak to Peak Jitter | Pk-Pk | | 20 typ. | | 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)

