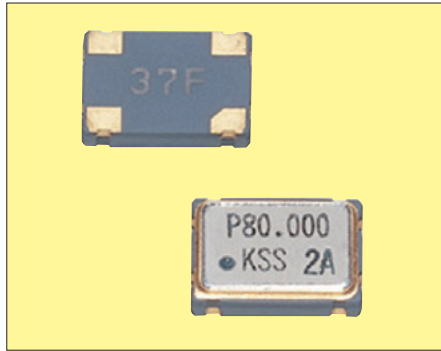


Clock Crystal Oscillators Surface Mount Type KC7050B Series (FXO-37FN Series)



CMOS/ 3.3V/ 5.5V/ 7.0×5.0mm



Pb Free

RoHS Compliant

Features

- Surface mount type suitable for auto pick-and-place
- Reflow compatible
- CMOS, TTL IC direct drive is possible
- With tri-state function
- Broad frequency range from 80MHz to 125MHz, (PLL circuit is built in)
- Supply voltage V_{CC} =3.3/ 5.0V available

Frequency Tolerance (Overall)

| Freq. Tol. Code | Freq. Tol. $\times 10^{-6}$ | Operating Temperature Range (°C) | Note |
|-----------------|-----------------------------|----------------------------------|--------------|
| 1 | ± 100 | -10 to +70 | 80 to 125MHz |
| 0 | ± 50 | (Standard) | |

How to Order

KC7050B 80.0000 C 3 0 B 00
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage 5=5.0V, 3=3.3V
- ⑤ Frequency Tolerance (See Table at Left)
- ⑥ Symmetry/ Enable Function (40/ 60%, INH)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

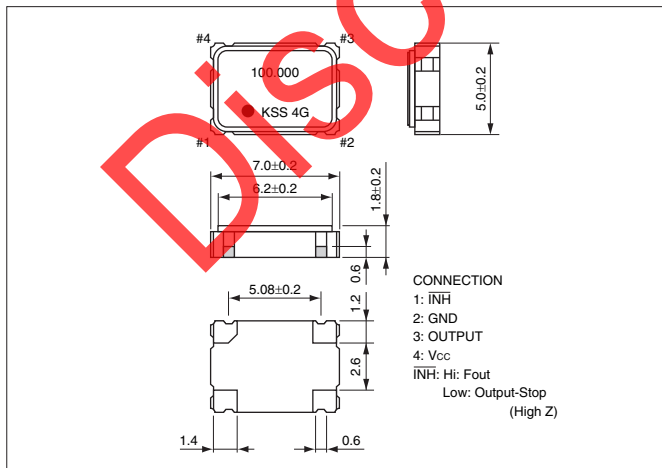
Specifications

| Item | Symbol | Conditions | Specifications | | Units |
|-------------------------------|-------------|------------------------|----------------|--------------|------------------|
| | | | Min. | Max. | |
| Output Frequency Range | F_o | | 80 | 125 | MHz |
| Frequency Tolerance (Overall) | F_{tol} | | -50 | +50 | $\times 10^{-6}$ |
| Storage Temperature Range | T_{stg} | | -100 | +100 | |
| Operating Temperature Range | T_{use} | | -20 | +80 | °C |
| Max. Supply Voltage | — | | -10 | +70 | °C |
| Supply Voltage | V_{CC} | 3.3V Type 5.5V Type | — | 6 | V |
| Current Consumption | I_{CC} | | 3.135 | 3.465 | V |
| Stand-by Current | I_{std} | | 4.75 | 5.25 | V |
| Symmetry | SYM | @50% V_{CC} | — | 60 | mA |
| Rise/ Fall Time | t_r / t_f | | — | 7 | μA |
| Low Level Output Voltage | V_{OL} | | — | 10% V_{CC} | nS |
| High Level Output Voltage | V_{OH} | | 90% V_{CC} | — | V |
| Output Load | CL | | — | 15 | pF |
| Input Voltage Range | V_{IN} | | V_{SS} | V_{CC} | V |
| Low Level Input Voltage | V_{IL} | | — | 30% V_{CC} | V |
| High Level Input Voltage | V_{IH} | | 70% V_{CC} | — | V |
| Disable Time | t_{dis} | | — | 1 | mS |
| Enable Time | t_{ena} | | — | 3 | mS |
| Start-up Time | t_{str} | | — | 10 | mS |

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)

