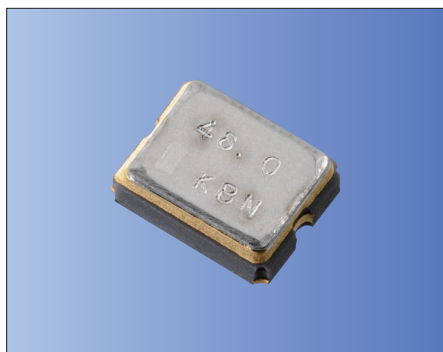




CMOS/ 1.8V/ 2.5×2.0mm



RoHS Compliant

Features

- Miniature ceramic package
2.5 (L) × 2.0 (W) × 0.7 (H) mm (Typ.)
- High Stability Output Frequency
±10×10⁻⁶ (-10 to +70°C)
±15×10⁻⁶ (-40 to +85°C)
- CMOS output
- Supply voltage V_{CC}=1.8V
Low Power Supply Consumption

Applications

- Wi-Fi, Bluetooth* etc.
- * Bluetooth* is a registered trademarks of Bluetooth SIG Inc.

How to Order

KC2520C 40.000 C 1 □ E 00
① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (1.8V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ INH Function (45/ 55%)
- ⑦ Individual Specification (STD Specification is "00")

Packaging (Tape & Reel 2000 pcs./ reel)

Table 1

| Code | Freq. Tol. | Operating Temperature Range (°C) | Note |
|------|--------------------|----------------------------------|--|
| | × 10 ⁻⁶ | | |
| Y | ±10 | -10 to +70 | Please contact us for available frequencies. |
| K | ±20 | -40 to +85 | Standard specifications |
| L | ±15 | | |

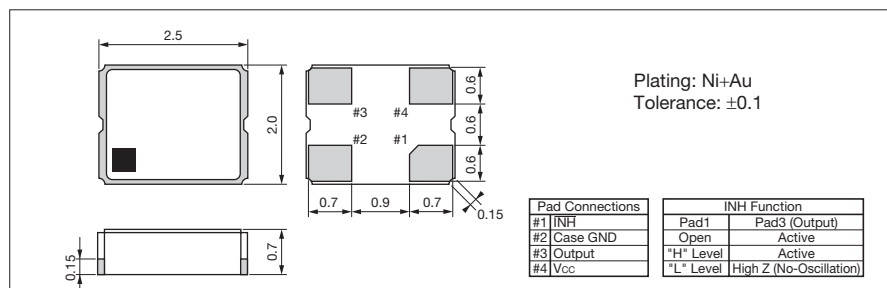
Specifications

| Item | Symbol | Conditions | Min. | Max. | Units | |
|---|--------------------|--|------------------------------|---------------------|-------|-------------------|
| Output Frequency Range | f _o | | 1.5 | 54 | MHz | |
| Frequency Tolerance | f _{tol} | Initial tolerance, Operating temperature range, Rated power supply voltage change, Aging (1 year @25°C), Shock and vibration | Temp.: -40 to +85°C | -15 | +15 | ×10 ⁻⁶ |
| | | | Temp.: -40 to +85°C | -20 | +20 | |
| | | | Temp.: -10 to +70°C | -10 | +10 | |
| Storage Temperature Range | T _{stg} | | -55 | +125 | °C | |
| Operating Temperature Range | T _{use} | | -10 | +70 | °C | |
| | | | -40 | +85 | | |
| Max. Supply Voltage | — | | -0.3 | +4.0 | V | |
| Supply Voltage | V _{CC} | | +1.6 | +2.0 | V | |
| Current Consumption (Maximum Loaded) | I _{CC} | CL ≤ 15pF | 1.5 ≤ f _o < 24MHz | — | 4 | mA |
| | | | 24 ≤ f _o ≤ 54MHz | — | 4.5 | |
| Stand-by Current | I _{std} | | — | 5 | μA | |
| Symmetry | SYM | @50% V _{CC} | 45 | 55 | % | |
| Rise/ Fall Time (10% V _{CC} to 90% V _{CC} Maximum Loaded) | Tr/ Tf | | — | 4 | ns | |
| Low Level Output Voltage | V _{OL} | I _{OL} = 4mA | — | 10% V _{CC} | V | |
| High Level Output Voltage | V _{OH} | I _{OH} = -4mA | 90% V _{CC} | — | V | |
| CMOS Load | L _{CMOS} | CMOS Output | — | 15 | pF | |
| Input Voltage Range | V _{IN} | | 0 | 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} | | — | 100 | ns | |
| Enable Time | t _{ena} | | — | 5 | ms | |
| Start-up Time | t _{str} | @Minimum operating voltage to be 0 sec. | — | 10 | ms | |
| 1 Sigma Jitter | J _{Sigma} | Measured with Wavecrest SIA-3000 | — | 8 | ps | |
| Peak to Peak Jitter | J _{PK-PK} | | — | 80 | ps | |

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

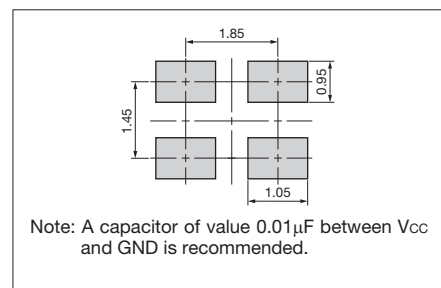
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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