

PRECISION CRYSTAL OSCILLATOR

OSC73

Applications

- Wireless-LAN / PLC Modem / WiMax / Mobile Communications etc

Features

- Ceramic package / Dimensions (5.0×3.2×1.05)
- Low phase noise, Low jitter
- Low current consumption
- CMOS output with Tri-state function
- 3.1mA typ. (40MHz Vdd=+2.5V)

Specifications

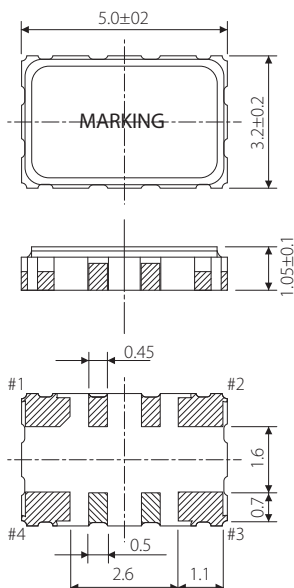


| Model | OSC73 |
|-----------------------------|--|
| Frequency range | 2.500~60.000 MHz |
| Nominal Frequency (MHz) | 5, 10, 12, 16, 20, 24, 32, 40, 44 |
| Storage temperature range | -40~ +85°C |
| Operating temperature range | -40~ +85°C |
| Frequency stability | $\pm 10 \times 10^{-6}$, $\pm 15 \times 10^{-6}$ ※1 |
| Aging | $\pm 2 \times 10^{-6}$ / 1st year at 25°C |
| Power supply voltage (Vdd) | +1.8, +2.5, +3.0V, +3.3V DC $\pm 10\%$ |
| Current consumption | 7mA max. / 10uA max (Standby) |
| Output level | C-MOS |
| Load | 15pF max. |
| Output voltage level | V _{OL} : 10%Vdd max. / V _{OH} : 90%Vdd min. |
| Rise & Fall time | 5ns max. / 10%Vdd - 90%Vdd |
| Duty cycle | 45% ~ 55% at 1/2Vdd |
| Phase Noise / Jitter | -143dBc / Hz Typ. at 10kHz offset / 1 σ 3ps typ. |
| Tri-state Function | #1: Floating or "H"→Output enable / #1: "L"→Output disable(Hi-Z) |

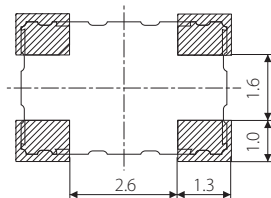
Package quantity: 1,000pcs max./Reel.

※1 Frequency stability includes initial tolerance, temperature characteristics, supply voltage & load stability, reflow freq. shift, aging (1year @25°C).

Outline and Dimensions [unit:mm]



Example of a Terminal Land Pattern



| Terminal | Connection |
|----------|------------|
| #1 | Tri-state |
| #2 | GND |
| #3 | OUTPUT |
| #4 | Vdd |

Tri-state Function

| Tri-state Pin | Output |
|------------------|--------------|
| High or Floating | Active |
| Low | Hi-impedance |