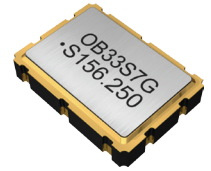


LVDS DIFFERENTIAL OUTPUTS CRYSTAL OSCILLATOR

OSC57B



Applications

- SONET / SDH / Gbits / Ethernet / IEEE1394 / Fibre Channel

Features

- Ceramic package / Dimensions (7.0×5.0×1.5)
- Low phase jitter / 0.3ps typ. / 12kHz to 20MHz offset
- LVDS differential outputs with Tri-state function
- Low Jitter

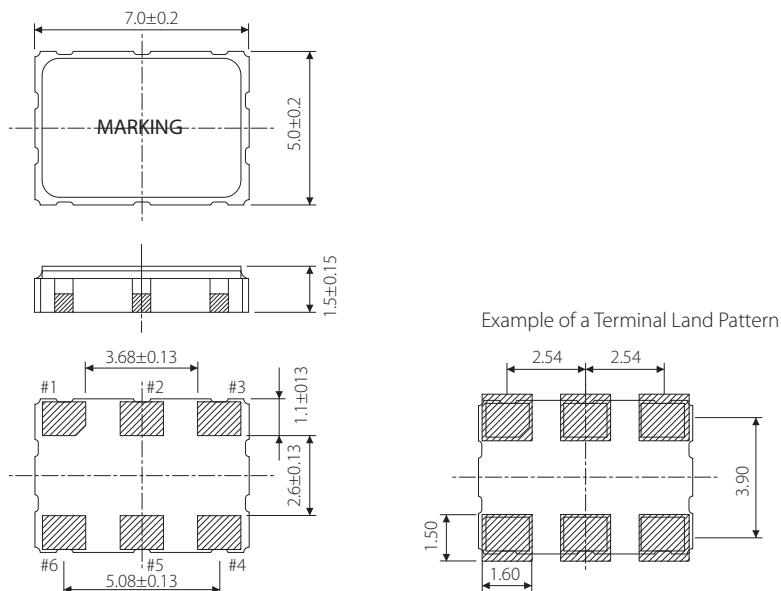
Specifications



| Model | OSC57B |
|-----------------------------|--|
| Frequency range | 80.000~160.000 MHz |
| Nominal Frequency (MHz) | 100, 106.25, 108, 125, 133, 155.52, 156.25 |
| Storage temperature range | -40~+85°C |
| Operating temperature range | -10~+70°C |
| Frequency stability | $\pm 30 \times 10^{-6}$, $\pm 55 \times 10^{-6}$, $\pm 100 \times 10^{-6}$ |
| Power supply voltage (Vcc) | +2.5V, +3.3V DC $\pm 5\%$ |
| Input voltage level | V _L : 0.3Vcc max. / V _H : 0.7Vcc min. |
| Current consumption | 70mA max. (50mA typ.) / 30uA max. (Standby) |
| Output level | LVDS |
| Load | 100Ω (OUT-OUTN) |
| Output voltage level | V _{OL} : 0.9V min. / V _{OH} : 1.6V max. |
| Differential output voltage | 0.33V typ. |
| Offset voltage | 1.25V typ. |
| Rise & Fall time | 1ns max. / 20%~80%Output swing level |
| Duty cycle | 45~55% at 50% output swing level |
| Jitter | RMS 1σ 5ps max. (3ps typ.) |
| Phase Jitter | RMS 1ps max. (0.3ps typ.) / 12kHz to 20MHz offset |
| Tri-state Function | #1: Floating or "H"→Output enable / #1: "L"→Output disable (Hi-Z) |

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

Outline and Dimensions [unit:mm]



| Terminal | Connection |
|----------|------------|
| #1 | Tri-state |
| #2 | N.C. |
| #3 | GND |
| #4 | OUT |
| #5 | OUTN |
| #6 | Vdd |

Tri-state Function

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