

RVX7050M

The RVX7050M is a high-frequency and low phase noise performance VCXO. With an impressively low RMS phase jitter 0.1 ps typ. (12 kHz to 20 MHz offset). It maintains remarkable performance even in a high-temperature operating range of up to 105°C.

This compact SMD (Surface Mount Device) has a 7.0 x 5.0 mm footprint, offering precise frequency stability. It caters to a wide spectrum of applications with a broad selection of industry-standard frequencies, ranging from 60 to 230 MHz. The RVX7050M boasts a short lead time, ensuring swift availability for your projects.

Features

- Fast sample turnaround
- LVC MOS, LVPECL, or LVDS output options
- 0.1 ps typ. RMS phase jitter (12 kHz to 20 MHz)
- Wide frequency range

Applications

- Base stations
- Ethernet
- DSL/ADSL
- WiMAX/W-LAN
- Wi-Fi

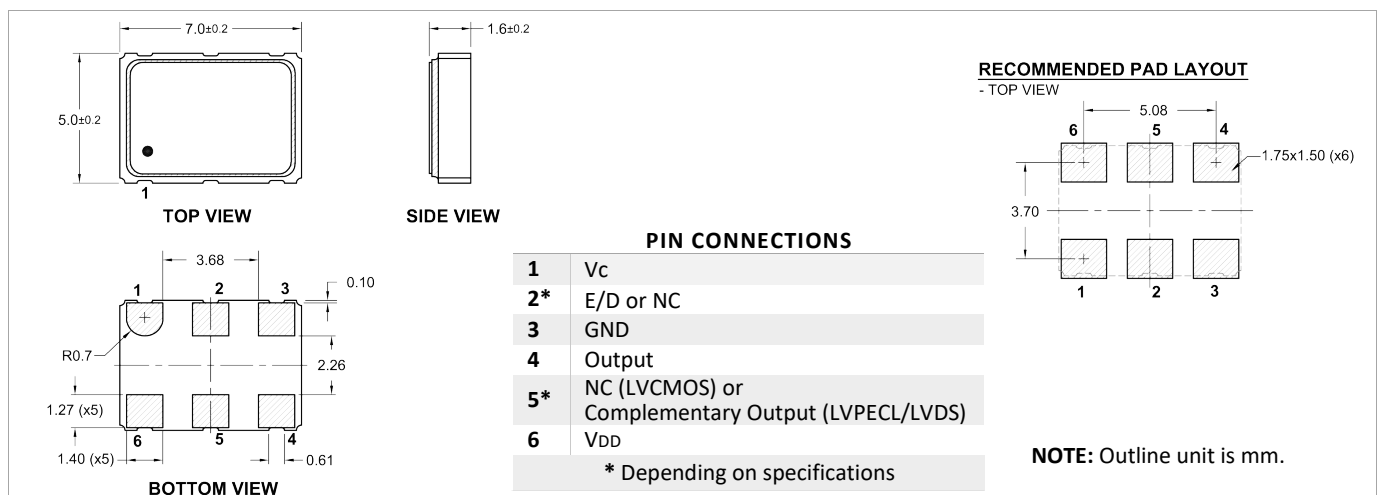
7.0 x 5.0 x 1.6 mm



Standard Specifications

| Parameter | Min. | Typ. | Max. | Unit | Test Condition / Description |
|---|----------|------|----------------|----------------|---|
| Nominal frequency | 60 60 | | 180 250 | MHz MHz | LVC MOS LVPECL or LVDS |
| Temperature range | -40 | | 105 | °C | -40°C to 105°C is available on request |
| Temperature stability | | | ±25 ±30 | ppm | Temperature range: -40 to 85°C Temperature range: -40 to 105°C |
| Frequency stability | | | ±50 | ppm | Including frequency calibration, operating temperature range, supply and load variations, and 1 year ageing at 25°C. 10 years ageing available on request |
| Absolute pull range (APR) | ±50 | | | ppm | Referenced at V _c = 1.65V |
| Supply voltage (V _{DD}) | | 3.3 | | V | With a tolerance of ±5% |
| Supply current | | | 30 50 70 | mA mA mA | For LVC MOS For LVDS For LVPECL |
| RMS phase jitter (@122.88 MHz) ¹ | | 0.1 | 0.15 | ps | Integrated from 12kHz to 20MHz |

Model Outline and Recommended Pad Layout



¹ RMS phase jitter value varies depending on the output type and frequency.