



VCXO-Oscillator SMD VCXO7050T3-6pad, 3.3V Voltage Controlled Crystal Oscillator

- CMOS/TTL Output Wave Form
- SMD in ceramic case (7.0 x 5.0 x 1.8) mm, on Tape & Reel (Tape 16mm)
- with Tri-State Function, 3.3 V
- RoHS conform; Lead-free product
- Vibration: MIL-STD-202F method 204, 35G, 50 to 2000 Hz
- Shock: MIL-STD-202F method 213B, test cond. E, 1000GG 1/2 sine wave
- Available in many standard and special frequencies



Specifications

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| Holder Type: | VCXO-Oscillator SMD VCXO7050T3-6pad 3.3V (Voltage code is "3.3") |
| Frequency: | 40.960000 MHz |
| Initial Freq. Accuracy (at 25 °C): | To tune to the nominal frequency with $V_c = 1.65V \pm 0.2V$ |
| Freq. Stability o.Operating Temp. Range: | ± 10.0 ppm |
| Operating Temperature Range: | ± 10.0 ppm over $-20^\circ C$ to $+70^\circ C$ (inclusive of $25^\circ C$ tolerance, $\pm 10\%$ input voltage variation, load change, aging, shock and vibration) |
| Deviation: | Frequency Range ± 100 ppm |
| Power Supply Voltage (Vdd): | + 3.3V DC $\pm 10\%$ |
| Maximum Supply Current: | 20.0 mA |
| Output Load CL: | 2 TTL gates max. / CMOS 15 pF |
| Output "1" Level (VOH): | 2.4V (min.) TTL / 2.97V (min.) CMOS |
| Output "0" Level (VOL): | 0.4V (max.) TTL / 0.33V (max.) CMOS |
| Output Symmetry (Duty Cycle): | 40/60% |
| Tri-State Function: | Tri-State Enable High. No connection or $V_{dd} - 0.5V_{min}$ is applied to a Tri-state pin to enable output. Ground + 0.5V $_{max}$ to disable output (high impedance). |
| Modulation Bandwidth (at -3 dB): | 10KHz min, Vcontrol at 1.65V or at 2.5V |
| Voltage Control: | 1.65V DC Center / 0.3V to 3.0V Range |
| Linearity: | 6% typical; 10% max. |
| Rise/Fall Time TTL: | 6ns (max.) 4ns (typ.) Measured between 0.4V and 2.4V |
| Rise/Fall Time CMOS: | 6ns (max.) 4ns (typ.) Measured between 20% and 80% Vdd of the wave form (CL = 15pF) |
| Integrated Phase Jitter: | 1 ps max. (12 kHz to 20 MHz) |
| Phase Noise (27MHz at 3.3V): | -40dBc/Hz at 10Hz offset -147dBc/Hz at 10kHz offset -104dBc/Hz at 100Hz offset -152dBc/Hz at 100kHz offset -132dBc/Hz at 1kHz offset -150dBc/Hz at 1MHz offset |
| Start Up Time: | 10 ms (max.), 5ms (typ.) |
| Aging: | ± 3 ppm per year (max.) |
| Input Impedance: | 1 M Ohm typical |
| Reflow Condition: | 10 sec. max. at $260^\circ C$ |

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