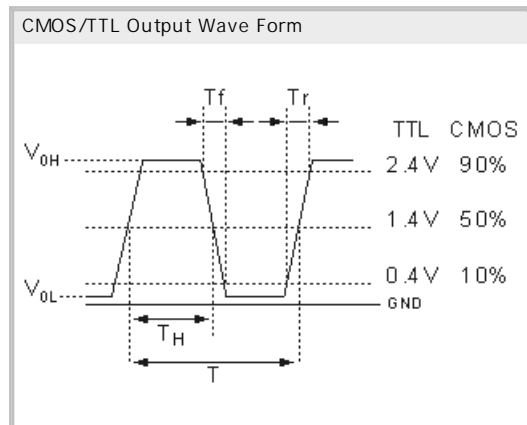
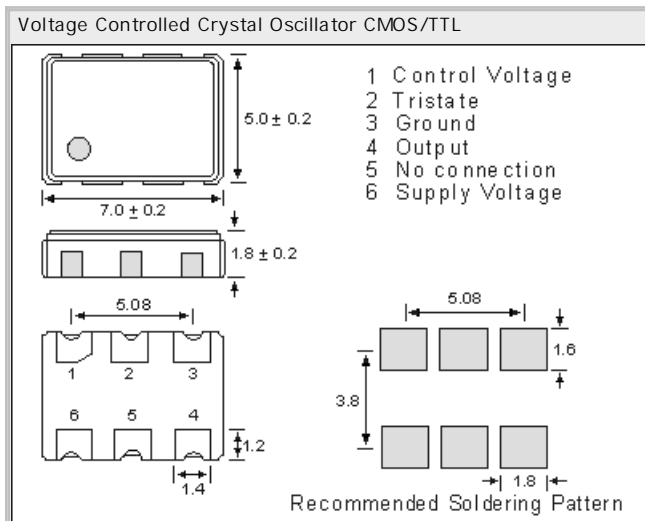


Clock Oscillator VCXO7050TF3.3-6pad, 3.3V  
Voltage Controlled Crystal Oscillator CMOS/TTL

- 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
- High Q fundamental crystal + ultra low jitter multiplier circuit
- 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 - Product No. G080000000CU SUPCO0A B

|                                     |   |
|-------------------------------------|---|
| Holder Type:                        | Voltage Controlled Crystal Oscillator CMOS/TTL<br>VCXO7050TF3.3-6pad 3.3V(Voltage code is "3.3"); Tri-State   |
| Frequency:                          | 80.000000 MHz   |
| Frequency Stability at 25°C:        | ± 25.0 ppm  |
| Operating Temperature Range:        | ± 25.0 ppm over -20°C to +70°C (inclusive of 25°C tolerance,<br>± 10% input voltage variation, load change, aging, shock and vibration )                    |
| Frequency Deviation Range:          | ± 100.0 ppm   |
| Storage Temperature:                | -50°C to +100°C   |
| Power Supply Voltage (Vdd):         | + 3.3V D.C. ± 5%  |
| Maximum Supply Current (15pF load): | 30.0 mA   |
| Voltage Control:                    | 1.65V DC Center / 0.3V to 3.0V Range  |
| Load:                               | 15pF  |
| Output Logic Levels:                | High "1" 90% of Vdd-min, Low "0" 10% Vdd-max.,  |
| Output Symmetry (Duty Cycle):       | 50% ± 5% max. (measured at 50% Vdd)   |
| Rise/Fall Time:                     | 0.7ns typical, (0.3V<->3.0V, 15pF load)   |
| Start Up Time:                      | 10 ms (max.); 5 ms (typical)  |
| Linearity:                          | 6% typical, 10% max.  |
| Tri-State Function:                 | Tri-State Enable High. No connection or 70% of Vdd min. is applied to a Tri-state pad to enable output. 30% of Vddmax. to disable outputs (high impedance). |
| Phase Jitter (12 kHz to 20 MHz):    | 0.4 ps typ., 0.5 ps max., for 156.250MHz  |
| Phase Noise (typical), Vcon :GND:   | (Offset 156.250 MHz)<br>-62dBc/Hz @ 10Hz, -92dBc/Hz @ 100Hz, -120dBc/Hz @ 1kHz<br>-132dBc/Hz @ 10kHz, -128dBc/Hz @ 100kHz, -140dBc/Hz @ 1MHz                |
| Aging:                              | < ± 3ppm max. for the first year; 2ppm max. per year thereafter   |
| Input Impedance:                    | 60 K ( min.)  |
| Reflow Condition:                   | 260°C max for 10 sec.   |

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