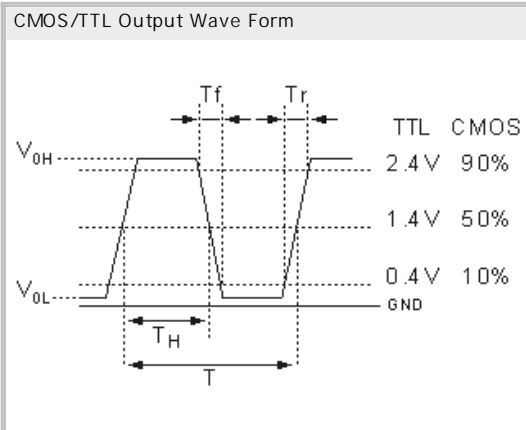
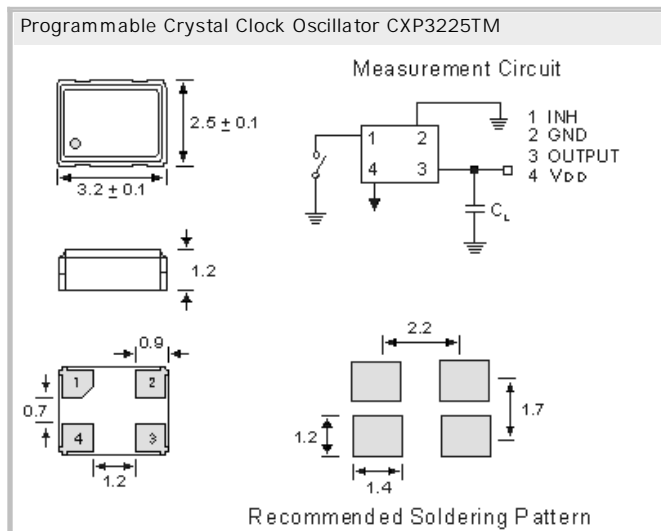


Programmable Crystal Clock Oscillator CXP3225TM
3.3V 1 - 200MHz, 2.5V 1 - 166MHz, 1.8V 1 - 110MHz

- SMD in ceramic case (3.2 x 2.5 x 1.0) mm
- Tri-State Enable / Disable
- LVCMOS Square Wave
- on Tape & Reel (Tape 8mm) or on trays
- 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

| | |
|------------------------------------|---|
| Holder Type: | Programmable Crystal Clock Oscillator CXP3225TM3 (\pm 3.3V CMOS), CXP3225TM25 (\pm 2.5V CMOS), CXP3225TM18 (\pm 1.8V CMOS) |
| Frequency Range: | 3.3V (1.0 ~ 200.0MHz), 2.5V (1.0 ~ 166.0MHz), 1.8V (1.0 ~ 110.0MHz) |
| Frequency: | 24.000000 MHz Blank, Ground Frequency |
| Frequency Stability at 25°C: | \pm 25 ppm / \pm 50 ppm / \pm 100 ppm |
| Operating Temperature Range: | -40°C to +85°C (Inclusive Operating Temp., Supply Voltage, & Load) |
| Storage Temperature: | -55°C to +150°C |
| Power Supply Voltage (Vdd): | + 3.3V D.C. \pm 10%, + 2.5V D.C. \pm 10%, + 1.8V D.C. \pm 10% |
| Max. Supply Current 25/200MHz: | 3.3V/4.0/20mA; 2.5V/3.0/13.0mA; 1.8V/2.5/8.0mA; (15pF) |
| PLL Off: 25MHz Supply Current: | 3.3V 4.0mA; 2.5V 2.5mA; 1.8V 2.0mA; (15pF) |
| PLL On 200MHz Supply Current: | 3.3V 20mA; 2.5V 12.5mA; 1.8V 8.5mA; (15pF) |
| Rise/Fall Time: | 3.3V 3.0ns typ. 2.5V 3.0ns typ. 1.8V 4.0ns typ. (25MHz, PLL off) 3.3V 1.5ns typ. 2.5V 1.5ns typ. 1.8V 1.5ns typ. (200MHz, PLL off) |
| Output Load: | 15pF |
| Start Up Time: | 5ms max. |
| Output Symmetry (Duty Cycle): | 50% \pm 5% (measured at 50% Vdd) |
| Period Jitter, peak to peak: | 70ps typical |
| Low Phase Noise (typical): | -114dBc/Hz at 1KHz offset (133MHz) |
| Tri-state Function Pin 1 (option): | Pin 1 = H or open.... Output active at pin 3 Pin 1 = L.... high impedance at pin 3 |
| Output Disable/Enable Time: | 150 ns |
| Aging: | < \pm 5ppm max. / year (max.) |
| Reflow Condition: | 260°C max. for 10 sec. |

GERMANY:

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