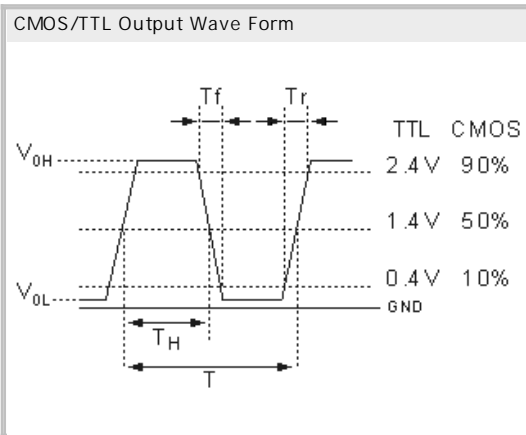
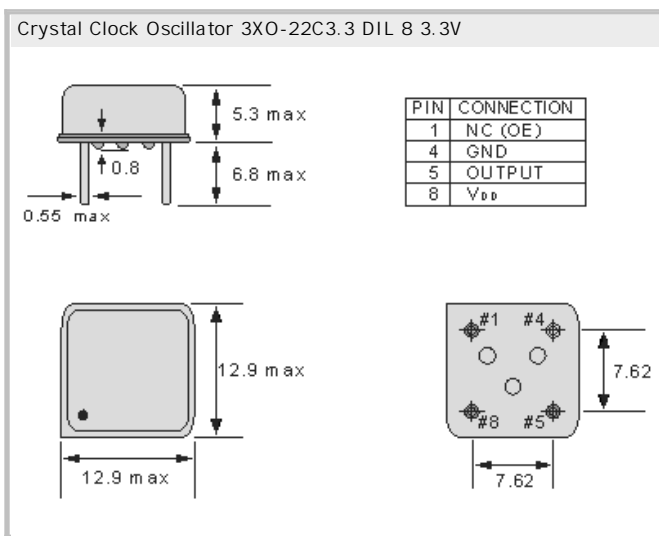


Crystal Clock Oscillator 3XO-22C3.3 DIL 8 3.3V

- micro-processor clocks
- ultra compact metal package
- CMOS/TTL Square Wave
- Available in many standard and special frequencies
- packed in antistatic tubes
- RoHS conform; Lead-free product



## Specifications

Holder Type:	Crystal Clock Oscillator 3XO-22C3.3 DIL 8 3.3V
Frequency Range:	20.000 kHz to 130.000 MHz
Frequency Stability at 25°C:	± 20 to ± 100 ppm
Operating Temperature Range:	-20°C to +70°C, -40°C to +85°C (Inclusive Operating Temp., Supply Voltage, & Load)
Storage Temperature:	-50°C to +100°C
Power Supply Voltage (V <sub>DD</sub> ):	+ 3.3V D.C. ± 10%
Maximum Supply Current:	15mA max. (20.00kHz ~ 23.999MHz) 20mA max. (24.00MHz ~ 49.999MHz) 45mA max. (50.00MHz ~ 130.00MHz)
Output Load CL:	2 ~ 10 (LS) TTL gates, 15pF HCMOS (30pF and 50pF optional)
Output Symmetry (Duty Cycle):	40/60% (45/55% optional)
Output Voltage (V <sub>OH</sub> ) (V <sub>OL</sub> ):	90% of V <sub>DD</sub> min. / 10% of V <sub>DD</sub> max.
Rise/Fall Time (10% to 90% V <sub>DD</sub> ):	10 ns max. < 5 ns typical
Start Up Time:	10 ms max. < 5 ms typical
Tri-state (Option):	Pin 1 = H or open.... Output active at pin 3 Pin 1 = L.... high impedance at pin 3
Moisture sensitivity level:	MSL= 1 per IPC/JEDEC J-STD-020 C
Aging:	< ± 5ppm max. / year (max.)

### GERMANY:

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