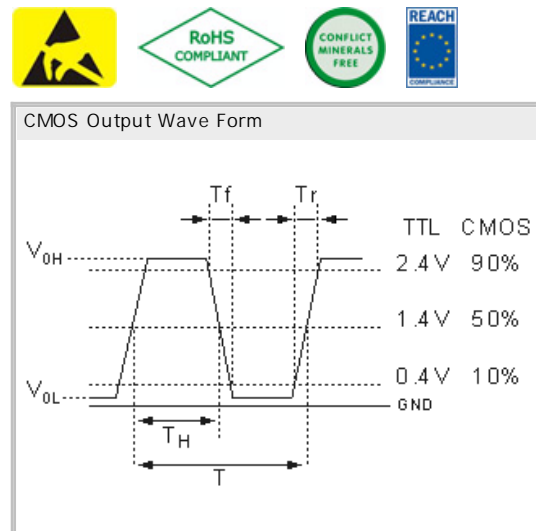
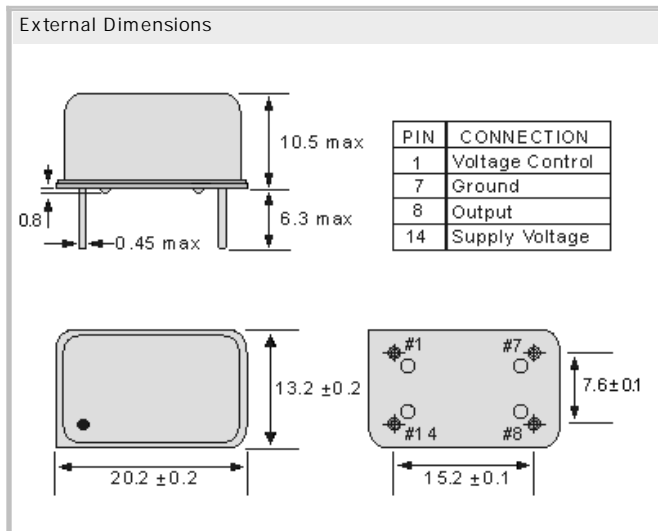




OCXO-14T12.0 12.0V
Oven Controlled Crystal Oscillator

- DIL in metal case (20.2 x 13.2 x 10.5) mm
- CMOS Square Wave, AT-cut crystal
- Best Stability ± 0.05 ppm
- RoHS conform; Lead-free product
- Vibration: 10 to 2000 Hz / 10 G
- Shock: 2000 G, 0.3ms 1/2 sine
- Available in many standard and special frequencies



Specifications

| | |
|-----------------------------------|---|
| Holder Type: | OCXO-14T12.0 12.0V (Voltage code is " 12.0 ") |
| Supply Voltage range: | +12.0V ± 0.5 V |
| Frequency Range: | 1.250 MHz to 100.000 MHz |
| Initial Calibration Tolerance: | ± 0.5 ppm max., Vcon = +2.5V |
| Frequency Stability (FS): | |
| (FS) Operating Temperature Range: | 0°C to +60°C, typical ± 0.2 (ppm), available ± 0.05 (ppm) -20°C to +70°C, typical ± 0.3 (ppm), available ± 0.10 (ppm) -40°C to +85°C, typical ± 0.5 (ppm), available ± 0.20 (ppm) |
| (FS) Voltage Change: | (± 0.5 V) $< \pm 0.1$ ppm |
| (FS) Warm up time (+25°C): | 3 minutes (max.) |
| (FS) Aging: | ± 0.7 ppm first year, < 4.0 ppm over 10 years |
| (FS) Load Change: | ± 0.01 ppm, for $\pm 5\%$ load condition change |
| Voltage Control on pin 1 (EFC): | Electronic Frequency Tuning |
| (EFC) Freq. Deviation Range: | ± 4.0 ppm (min.), Reference to fo at +25°C |
| (EFC) Control Voltage Range: | (+5.0V) 0.0 to 5.0V |
| (EFC) Transfer Function: | Positive: Increasing control voltage increases output frequency |
| (EFC) Input Impedance: | 47 k Ohm (min.) |
| (EFC) Linearity: | $\pm 10\%$ (max.) |
| Power Dissipation (at 25°C): | steady-state : 1.0 W (max.) , turn-on: 2.0W (max.) |
| Output: | Load (Fan out) : 10LS Output Logic: High (Voh) +4.5V (min), Low (Vol) +0.4V (max.) Duty Cycle (at 50% Vcc) : 50% $\pm 10\%$ Rise and Fall Time (20% to 80%) : 7ns (max.) (20% to 80% of waveform) |
| Current with Output Disabled: | -60dBc/Hz @ 1Hz, -90dBc/Hz @ 10Hz, -120dBc/Hz @ 100Hz, -130dBc/Hz @ 1kHz, -140dBc/Hz @ 10kHz |

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