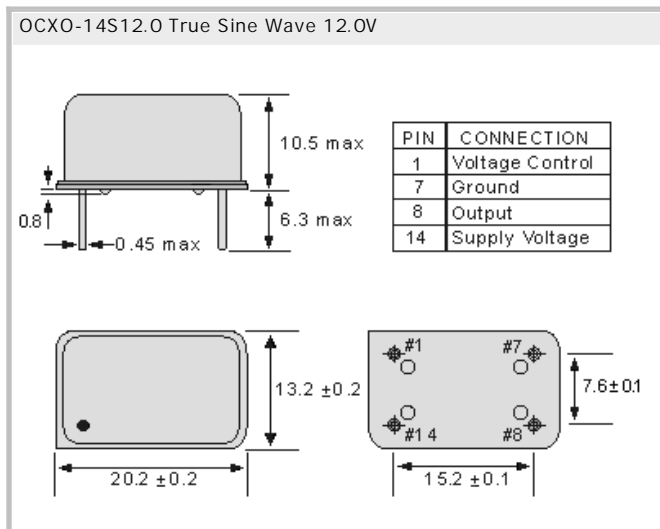




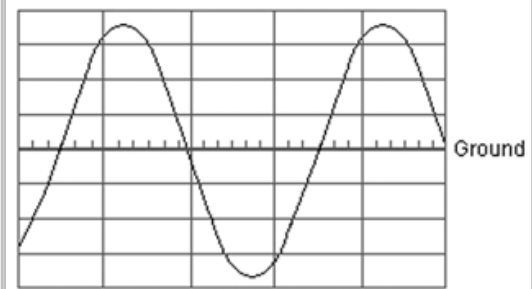
OCXO-14S12.0 True Sine Wave 12.0V
Oven Controlled Crystal Oscillator

- DIL in metal case (20.2 x 13.2 x 10.5) mm
- Output wave form: True Sine Wave, AT-cut crystal
- Best Stability $\pm 0.05\text{ppm}$
- 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



Sinus Output Wave Form



Specifications

| | |
|-----------------------------------|--|
| Holder Type: | OCXO-14S12.0 True Sine Wave 12.0V (Voltage code is " 12.0 ") |
| Supply Voltage range: | + 12.0V $\pm 0.5V$ |
| Frequency Range: | 10 MHz to 100.000 MHz |
| Initial Calibration Tolerance: | $\pm 0.5\text{ppm max.}$, $V_{con} = +2.5V$ |
| 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: | ($\pm 0.5V$) $< \pm 0.1\text{ppm}$ |
| (FS) Warm up time (+ 25°C): | 3 minutes (max.) |
| (FS) Aging: | ± 0.7 ppm first year, 4.0ppm over 10 years |
| (FS) Load Change: | $\pm 0.01\text{ppm}$, for $\pm 5\%$ load condition change |
| Voltage Control on pin 1 (EFC): | Electronic Frequency Tuning (is standard) |
| (EFC) Freq. Deviation Range: | $\pm 4.0\text{ppm}$ (min.), Reference to f_0 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: | Output Level : + 3 dBm (typ.) into 50 Ohm load Harmonic: -10 dBm (min.), Spurious: -70 dBc (min.) |
| SSB Phase Noise: | -70dBc/Hz @ 1Hz, -100dBc/Hz @ 10Hz, -130dBc/Hz @ 100Hz, -140dBc/Hz @ 1kHz, -145dBc/Hz @ 10kHz |

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