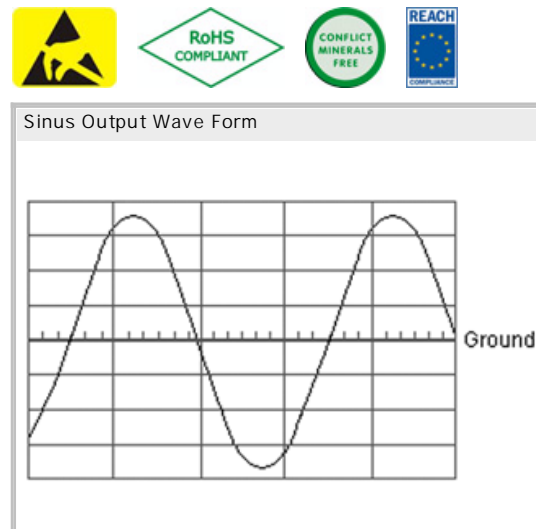
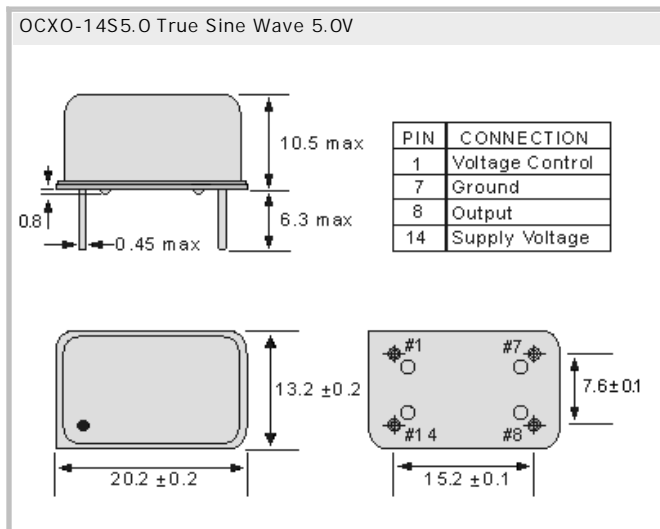




OCXO-14S5.0 True Sine Wave 5.0V  
Oven Controlled Crystal Oscillator

- DIL in metal case (20.2 x 13.2 x 10.5) mm
- Output wave form: True Sine Wave, AT-cut crystal
- Best Stability  $\pm 0.075$ 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-14S5.0 True Sine Wave 5.0V (Voltage code is " 5.0 " )  |
| Supply Voltage range:             | + 5.0V $\pm 0.2$ V  |
| Frequency Range:                  | 1.25 MHz to 100.000 MHz   |
| Initial Calibration Tolerance:    | $\pm 0.5$ ppm max., Vcon = +2.5V  |
| Frequency Stability (FS):         |   |
| (FS) Operating Temperature Range: | 0°C to + 60°C, typical $\pm 0.2$ (ppm), available $\pm 0.075$ (ppm)<br>-20°C to +70°C, typical $\pm 0.3$ (ppm), available $\pm 0.150$ (ppm)<br>-40°C to +85°C, typical $\pm 0.5$ (ppm), available $\pm 0.250$ (ppm) |
| (FS) Voltage Change:              | ( $\pm 0.2$ V) < $\pm 0.1$ ppm  |
| (FS) Warm up time (+ 25°C):       | 3 minutes (max.)  |
| (FS) Aging:                       | $\pm 0.7$ ppm first year, < 4.0ppm over 10 years  |
| (FS) Load Change:                 | $\pm 0.01$ ppm, for $\pm 5\%$ load condition change   |
| Voltage Control on pin 1 (EFC):   | Electronic Frequency Tuning   |
| (EFC) Freq. Deviation Range:      | $\pm 4.0$ 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 : 1.5 W (max.) , turn-on: 2.5W (max.)  |
| Output:                           | Output Level : + 3 dBm (typ.) into 50 Ohm load<br>Harmonic: -10 dBm (min.), Spurious: -70 dBc (min.)  |
| SSB Phase Noise:                  | -80dBc/Hz @ 1Hz, -110dBc/Hz @ 10Hz, -135dBc/Hz @ 100Hz,<br>-145dBc/Hz @ 1kHz, -150dBc/Hz @ 10kHz  |

## GERMANY:

COMTEC CRYSTALS GmbH · Sultenstrasse 12-14  
8 5 5 8 6 P o i n g / G E R M A N Y  
Phone +49 8121 778160 · Fax +49 8121 778177  
e-Mail [info@comtec-crystals.com](mailto:info@comtec-crystals.com)  
Internet: <http://www.comtec-crystals.com>  
Subject to change without prior notice.



Technical Data and Graphics are all under  
Copyright (c) of Comtec Crystals Group.

## FRANCE:

COMTEC CRYSTALS SARL · 23, rue du Faucon  
6 7 5 0 0 H a g u e n a u / F R A N C E  
Phone +33 388 732162 · Fax +33 388 730118  
e-Mail [sales@comtec-crystals.com](mailto:sales@comtec-crystals.com)  
Internet: <http://www.comtec-crystals.com>  
Sous réserve de modifications.