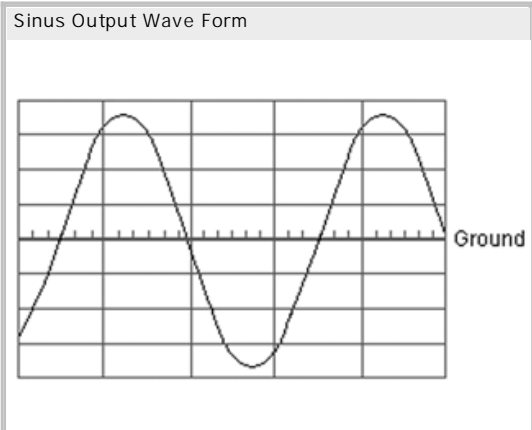
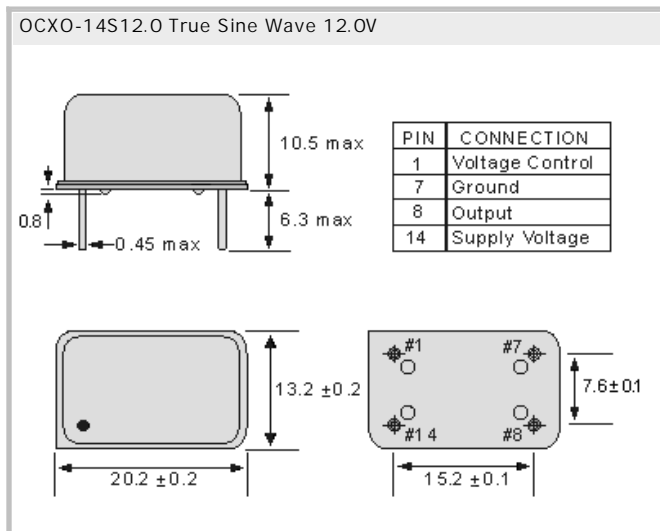




OCXO-14S12.0 True Sine Wave 12.0V  
Oven Controlled Crystal Oscillator

- 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



## 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 $\pm 0.2$ (ppm), available $\pm 0.05$ (ppm) -20°C to +70°C, typical $\pm 0.3$ (ppm), available $\pm 0.10$ (ppm) -40°C to +85°C, typical $\pm 0.5$ (ppm), available $\pm 0.20$ (ppm)
(FS) Voltage Change:	( $\pm 0.5V$ ) $< \pm 0.1\text{ppm}$
(FS) Warm up time (+ 25°C):	3 minutes (max.)
(FS) Aging:	$\pm 0.7$ 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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