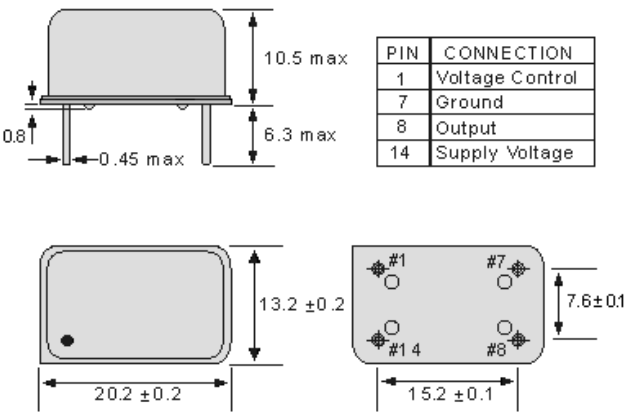
OCXO-14T12.0 12.0V
Oven Controlled Crystal Oscillator

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

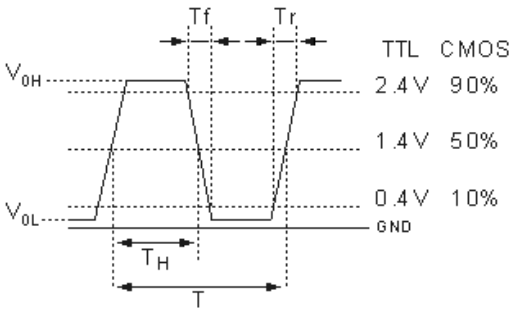
- Available in many standard and special frequencies

External Dimensions



PIN	CONNECTION
1	Voltage Control
7	Ground
8	Output
14	Supply Voltage

CMOS Output Wave Form



Specifications

Holder Type:	OCXO-14T12.0 12.0V (Voltage code is " 12.0 ")
Supply Voltage range:	+12.0V ±0.5V
Frequency Range:	1.250 MHz to 100.000 MHz
Initial Calibration Tolerance:	±0.5ppm max., Vcon = +2.5V
Frequency Stability (FS):	
(FS) Operating Temperature Range:	0°C to + 60°C, typical ±0.2 (ppm), avaiilable ± 0.05 (ppm) -20°C to +70°C, typical ±0.3 (ppm), avaiilable ± 0.10 (ppm) -40°C to +85°C, typical ±0.5 (ppm), avaiilable ± 0.20 (ppm)
(FS) Voltage Change:	(± 0.5V) < ± 0.1ppm
(FS) Warm up time (+25°C):	3 minutes (max.)
(FS) Aging:	±0.7 ppm first year, < 4.0ppm over 10 years
(FS) Load Change:	≤ ± 0.01ppm, for ± 5% load condition change
Voltage Control on pin 1 (EFC):	Electronic Frequency Tuning
(EFC) Freq. Deviation Range:	± 4.0ppm (min.), Reterence 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:	± 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% ± 10% Rice 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

GERMANY:
COMTEC CRYSTALS GmbH · Sultenstrasse 12-14
85586 Poing / GERMANY
Phone +49 8121 778160 · Fax +49 8121 778177
e-Mail 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
67500 Haguenau / FRANCE
Phone +33 388 732162 · Fax +33 388 730118
e-Mail sales@comtec-crystals.com
Internet: http://www.comtec-crystals.com
Sous réserve de modifications.