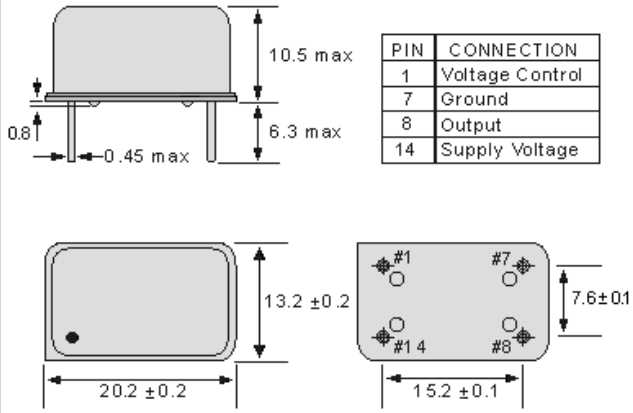
COMTEC CRYSTALS Group Data Sheet

OCXO-14T3.3 3.3V
Oven Controlled Crystal Oscillator

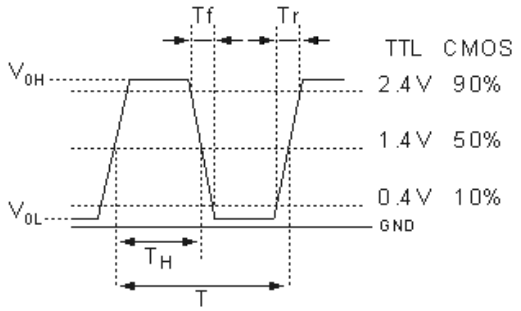
- DIL in metal case (20.2 x 13.2 x 10.5) mm
- CMOS Square Wave, AT-cut crystal
- Voltage control (Electronic Freq. Tuning) is standard
- RoHS conform; Lead-free product
- Vibration: 10 to 2000 Hz / 10 G
- Shock: 2000 G, 0.3ms 1/2 sine
- Available in many standard and special frequencies

External Dimensions



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

CMOS Output Wave Form



Specifications - Product No. G025000000DO3UPNBDPA

Holder Type:	OCXO-14T3.3 3.3V (Voltage code is " 3.3 ")
Supply Voltage range:	+3.3V ±0.15V
Frequency:	25.000000 MHz
Initial Calibration Tolerance:	±0.5ppm (max.), Vcon = +1.65V
Frequency Stability (FS):	
(FS) Operating Temperature Range:	+2°C to +35°C , ± 0.1ppm
(FS) Voltage Change:	(± 0.15V) < ± 0.1ppm
(FS) Warm up time (+25°C):	5 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.), Reference to fo at +25°C
(EFC) Control Voltage Range:	(+3.3V) 0.0 to 3.3V
(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 : 1.5 W (max.) , turn-on: 2.5W (max.)
Output:	Load (Fan out) : 10LS or 47pF Output Logic: High (Voh) +2.8V (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)
Output Phase Noise (10.0 MHz):	-80dBc/Hz @ 1Hz, -110dBc/Hz @ 10Hz, -135dBc/Hz @ 100Hz, -145dBc/Hz @ 1kHz, -150dBc/Hz @ 10kHz

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