

# 5.0V THRU-HOLE VOLTAGE CONTROLLED CRYSTAL OSCILLATOR VCXO-C

## FEATURES

- 5.0V Operation
- HCMOS/TTL Output
- Rugged Resistance Weld

## OPTIONS

- Many Stability/Pullability Options
- -40°C ~ +85°C Option ('R' Version)
- 1/2 Size Version Available



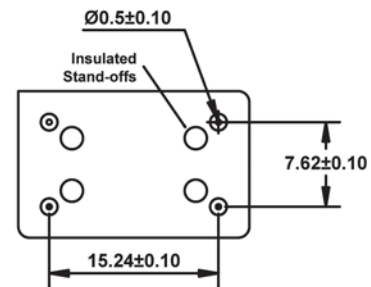
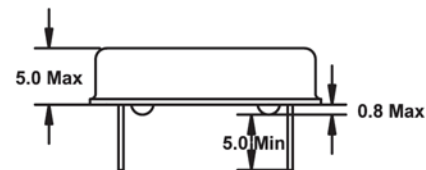
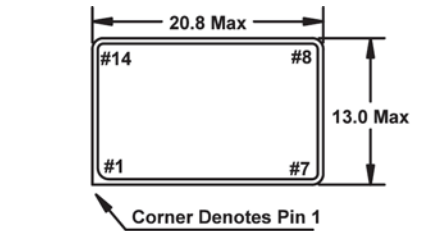
• MODEL NUMBER SELECTION				
Model Number	Frequency Stability <sup>1</sup>	Frequency Pullability	Operating Temperature (°C)	Frequency Range (MHz)
VCXO-C2	±50PPM	±200PPM	-10 ~ +70	1.000 ~ 40.000
VCXO-C2R	±50PPM	±200PPM	-40 ~ +85	1.000 ~ 40.000
VCXO-C3	±50PPM	±100PPM	-10 ~ +70	1.000 ~ 40.000
VCXO-C3R	±50PPM	±100PPM	-40 ~ +85	1.000 ~ 40.000
VCXO-C4	±25PPM	±100PPM	-10 ~ +70	1.000 ~ 40.000
VCXO-C4R	±25PPM	±100PPM	-40 ~ +85	1.000 ~ 40.000
VCXO-C7	±25PPM	±50PPM	-10 ~ +70	1.000 ~ 40.000
VCXO-C7R	±25PPM	±50PPM	-40 ~ +85	1.000 ~ 40.000
VCXO-C8	±100PPM	±100PPM	-10 ~ +70	1.000 ~ 40.000
VCXO-C8R	±100PPM	±100PPM	-40 ~ +85	1.000 ~ 40.000

• ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.000 ~ 40.000 <sup>2</sup> MHz
Storage Temperature Range (T <sub>STG</sub> )	-40°C ~ +85°C
Supply Voltage (V <sub>DD</sub> )	5.0V ± 5%
Control Voltage (V <sub>c</sub> )	2.5V ± 2V
Input Current (I <sub>DD</sub> )	
1.000 ~ 24.000 MHz	15mA
24.000+ ~ 30.000 MHz	20mA
30.000+ ~ 40.000 MHz	30mA
Output Symmetry (50% V <sub>DD</sub> )	40% ~ 60%
Rise Time (10% ~ 90% V <sub>DD</sub> ) (T <sub>R</sub> )	10nS
Fall Time (90% ~ 10% V <sub>DD</sub> ) (T <sub>F</sub> )	10nS
Output Voltage (V <sub>OL</sub> )	10% V <sub>DD</sub>
(V <sub>OH</sub> )	90% V <sub>DD</sub> Min
Output Current (I <sub>OL</sub> )	3.2mA Min
(I <sub>OH</sub> )	-0.1mA Min
Output Load	
TTL	8 LSTTL
HCMOS	15pF
Start-up Time (T <sub>s</sub> )	10mS
Phase Noise	
Fo + 1 kHz	-125 dBc/Hz
Fo + 10 kHz	-130 dBc/Hz
Linearity	±10%
Modulation	10kHz

<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, vibration, and V<sub>c</sub> = 2.5V.

<sup>2</sup> Higher frequencies available on an individual inquiry basis.

All specifications subject to change without notice. Rev. 10/14/03



### Pin Connections

- #1 V<sub>c</sub>
- #7 GND
- #8 Output
- #14 +5V<sub>DC</sub>

All dimensions are in millimeters.