



3.3V THRU-HOLE VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

MODEL: VCXO-D

FEATURES

- 3.3V Operation
- HCMOS Output
- Low Power Consumption
- Rugged Resistance Weld

OPTIONS

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



Discontinued

Learn More about:
[Part Marking Identification](#)
 Internet required

• PART NUMBER SELECTION [Learn More](#) - Internet Required

Part Number	Model Number	Frequency Stability ¹	Frequency Pullability	Operating Temperature	Frequency Range (MHz)
459-Frequency-xxxxx	VCXO-D3	±50PPM	±100PPM	-10 ~ +70 (°C)	1.000 ~ 40.500
463-Frequency-xxxxx	VCXO-D3R	±50PPM	±100PPM	-40 ~ +85 (°C)	1.000 ~ 40.500
460-Frequency-xxxxx	VCXO-D4	±25PPM	±100PPM	-10 ~ +70 (°C)	1.000 ~ 40.500
671-Frequency-xxxxx	VCXO-D4R	±25PPM	±100PPM	-40 ~ +85 (°C)	1.000 ~ 40.500
461-Frequency-xxxxx	VCXO-D7	±25PPM	±50PPM	-10 ~ +70 (°C)	1.000 ~ 40.500
462-Frequency-xxxxx	VCXO-D8	±100PPM	±100PPM	-10 ~ +70 (°C)	1.000 ~ 40.500
464-Frequency-xxxxx	VCXO-D8R	±100PPM	±100PPM	-40 ~ +85 (°C)	1.000 ~ 40.500

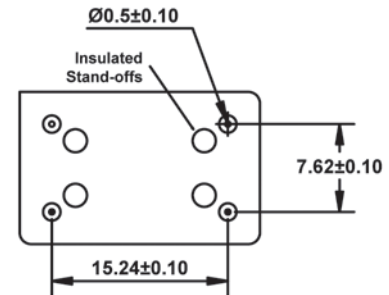
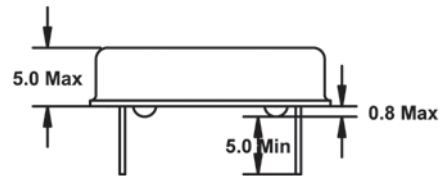
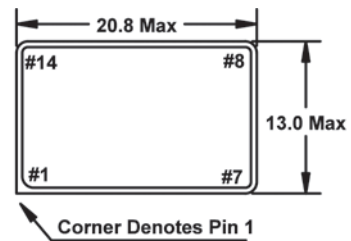
• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.000 ~ 40.500 ² MHz
Storage Temperature Range (TSTG)	-55°C ~ +125°C
Supply Voltage (VDD)	3.3V ± 5%
Control Voltage (Vc)	1.65V ± 1.65V
Input Current (IDD)	
1.000 ~ 24.000 MHz	10mA
24.000+ ~ 35.000 MHz	15mA
35.000+ ~ 40.500 MHz	25mA
Output Symmetry (50% VDD)	40% ~ 60%
Rise Time (10% ~ 90% VDD) (TR)	10nS
Fall Time (90% ~ 10% VDD) (TF)	10nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	4.0mA Min
(IOH)	-1.0mA Min
Output Load (HCMOS)	15pF
Start-up Time (Ts)	10mS
Frequency Linearity	±10%

¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, vibration, and Vc = 1.65V.

² Higher frequencies available on an individual inquiry basis.

All specifications subject to change without notice. Rev. 6/1/04



Pin Connections

- #1 Vc
- #7 GND
- #8 Output
- #14 +3.3V_{DC}

All dimensions are in millimeters.