

# 5.0V, HCMOS, Thru-Hole VCXO



Model: VCXO-CLF

RoHS Compliant / Pb Free

Rev. 9/19/2006

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## FEATURES

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

## OPTIONS

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

Learn more about:  
**Part Marking Identification**

Internet required

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

Part Number	Model Number	Frequency Stability <sup>1</sup>	Frequency Pullability	Operating Temperature	Frequency Range (MHz)
458-Frequency-xxxxx	VCXO-C2LF	±50PPM	±200PPM	-10 ~ +70 (°C)	1.000 ~ 40.000
466-Frequency-xxxxx	VCXO-C2RLF	±50PPM	±200PPM	-40 ~ +85 (°C)	1.000 ~ 40.000
317-Frequency-xxxxx	VCXO-C3LF	±50PPM	±100PPM	-10 ~ +70 (°C)	1.000 ~ 40.000
467-Frequency-xxxxx	VCXO-C3RLF	±50PPM	±100PPM	-40 ~ +85 (°C)	1.000 ~ 40.000
318-Frequency-xxxxx	VCXO-C4LF	±25PPM	±100PPM	-10 ~ +70 (°C)	1.000 ~ 40.000
468-Frequency-xxxxx	VCXO-C4RLF	±25PPM	±100PPM	-40 ~ +85 (°C)	1.000 ~ 40.000
319-Frequency-xxxxx	VCXO-C7LF	±25PPM	±50PPM	-10 ~ +70 (°C)	1.000 ~ 40.000
469-Frequency-xxxxx	VCXO-C7RLF	±25PPM	±50PPM	-40 ~ +85 (°C)	1.000 ~ 40.000
320-Frequency-xxxxx	VCXO-C8LF	±100PPM	±100PPM	-10 ~ +70 (°C)	1.000 ~ 40.000
470-Frequency-xxxxx	VCXO-C8RLF	±100PPM	±100PPM	-40 ~ +85 (°C)	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.

