

**Typical Applications**

*PCS Base Stations  
Land Mobile Radio  
Cellular Telephony  
Radio in the Local Loop  
Test Equipment*

**Features**

*3.3 Volt Supply  
EFC Standard  
Low Profile Standard Package  
Hermetically Sealed Package  
Surface Mount Options Available  
Stratum III Option Available*

**Frequency Range**

**> 30 MHz – 200 MHz**

Parameters		Model Numbers	
Operating Temperature Range	Frequency Stability * (ppm)	Clipped Sine Wave (1 Vpp min. into 1kΩ)	Square Wave (CMOS)
0....50°C	± 1.0 ppm	979VWAB	979VWHAB
	± 2.0 ppm	979VWAD	979VWHAD
0.....70°C	± 2.5 ppm	979VWDE	979VWHDE
	± 5.0 ppm	979VWDF	979VWHDF
-20....+70°C	± 2.0 ppm	979VWBD	979VWHBD
	± 2.5 ppm	979VWBE	979VWHBE
-30....+70°C	± 1.0 ppm	979VWCB	979VWHCB
	± 2.0 ppm	979VWCD	979VWHCD
	± 2.5 ppm	979VWCE	979VWHCE
-40....+85°C	± 1.0 ppm	979VWEB	979VWHEB
	± 2.0 ppm	979VWED	979VWHED
	± 2.5 ppm	979VWEE	979VWHEE

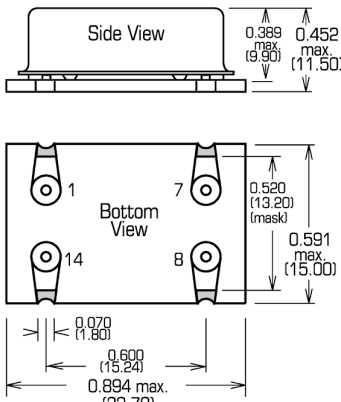
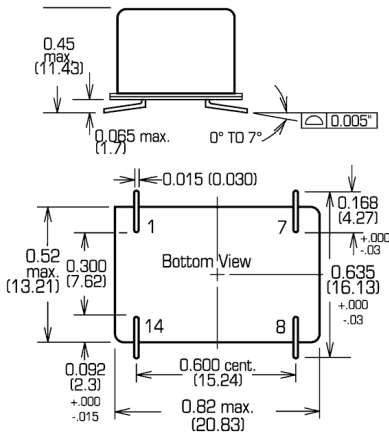
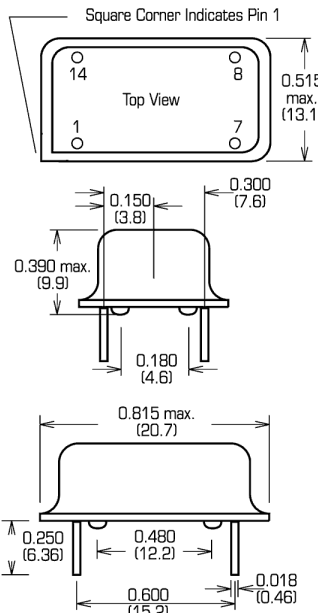
**Additional Parameters**

Supply Voltage: +3.3 Vdc ± 5%  
 Current  
     Clipped Sinewave: 2 mA to 6 mA  
     CMOS: 5 mA to 40 mA  
 Aging: ± 1 ppm/year  
 Electrical Frequency Control  
     Voltage Range: 0.5 to 3 Vdc  
     Deviation: ± 8 ppm min. (others available)  
     Slope: Positive  
     Input Impedance: > 10 kohms

**Typical Phase Noise @ 40 MHz**  
 1Hz Offset <- 55 dBc / Hz  
 10Hz Offset <-90 dBc / Hz  
 100Hz Offset <-120 dBc / Hz  
 1kHz Offset <-140dBc / Hz  
 10kHz Offset <-150dBc / Hz

\* Stratum III option of ±4.6 ppm total for all conditions over 20 years available.

**Enclosures**

<p><b>SMT "S" Package</b></p> 	<p><b>Gullwing "G" Package</b></p> 	<p><b>Through-hole "T" Package</b></p> 
<p><b>Pin Connections</b></p>	<p><b>Pin Connections</b></p>	<p><b>Pin Connections</b></p>
<p>1 Voltage Control or N/C 7 GND 8 RF Output 14 Supply Voltage</p> <p>Dimensions: Inches (mm)</p>	<p>1 EFC or N/C 7 GND/Case 8 RF Output 14 Supply Voltage</p> <p>Dimensions: Inches (mm)</p>	<p>1 EFC when specified 7 GND 8 RF Output 14 Supply Voltage</p> <p>Dimensions: Inches (mm)</p>

Model	EFC	Waveshape Freq. Stab. Temp. Range	Package Code	Frequency
979W	Blank = No EFC V= EVC Option	WHAB	T = Through-hole S = SMT G = Gullwing	40M00000

Typical P/N = 979VWHABT40

Unless otherwise specified, any TCXO ordered without either Mechanical or Electrical Trim capability shall have a frequency calibration tolerance at Room Temperature of ± 2ppm and the frequency stability tolerance over temperature will be from that measured value.