

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 – 120 MHz

Parameters		Model Numbers	
Operating Temperature Range	Frequency Stability * (ppm)	Clipped Sine Wave (1 Vpp min. into 1k Ω)	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 $\pm$ 5%

Current

Clipped Sinewave: 2 mA to 6 mA

CMOS: 5 mA to 40 mA

Aging: ± 1 ppm/year

Mechanical Frequency Control: ± 3.5 ppm min.

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

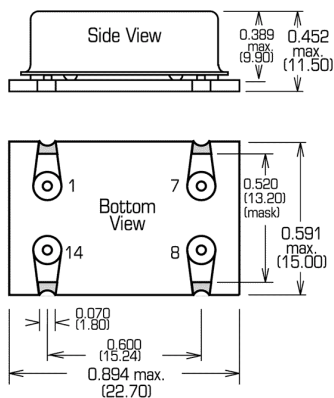
1kHz Offset <-140dBc / Hz

10kHz Offset <-150dBc / Hz

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

Enclosures

SMT "S" Package

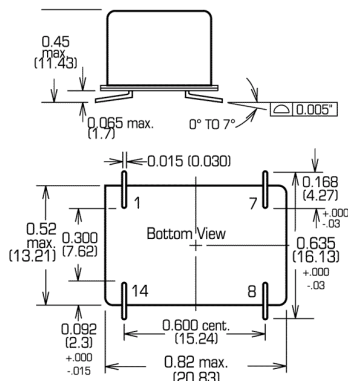


PIN CONNECTIONS

- 1 – Voltage Control or N/C
- 7 – GND
- 8 – RF Output
- 14 – Supply Voltage

Dimensions: Inches (mm)

Gullwing "G" Package

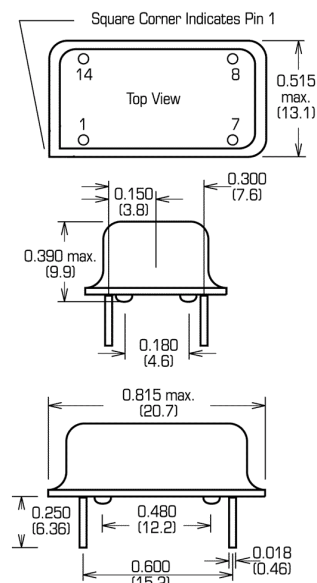


PIN CONNECTIONS

- 1 – EFC or N/C
- 7 – GND/Case
- 8 – RF Output
- 14 – Supply Voltage

Dimensions: Inches (mm)

Through-hole "T" Package



PIN CONNECTIONS

- 1 – EFC when specified (Pin 1 eliminated when not required.)
- 7 – GND
- 8 – RF Output
- 14 – Supply Voltage

Dimensions: Inches (mm)

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 ± 2 ppm and the frequency stability tolerance over temperature will be from that measured value.