

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

1 MHz – 30 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	± 0.5 ppm ± 1.0 ppm ± 2.0 ppm	979VAA 979VAB 979VAD	979VHAA 979VHAB 979VHAD
0....70°C	± 1.0 ppm ± 2.5 ppm ± 5.0 ppm	979VDB 979VDE 979VDF	979VHDB 979VHDE 979VHDF
-20....+70°C	± 1.0 ppm ± 1.5 ppm ± 2.0 ppm ± 2.5 ppm	979VBB 979VBC 979VBD 979VBE	979VHBB 979VHBC 979VHBD 979VHBE
-30....+70°C	± 1.0 ppm ± 2.0 ppm ± 2.5 ppm	979VCB 979VCD 979VCE	979VHCB 979VHCD 979VHCE
-40....+85°C	± 1.0 ppm ± 2.0 ppm ± 2.5 ppm	979VEB 979VED 979VEE	979VHEB 979VHED 979VHEE

Additional Parameters

Supply Voltage: +3.3 Vdc $\pm 5\%$

Current

Clipped Sinewave: 2 mA to 6 mA

CMOS: 5 mA to 20 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

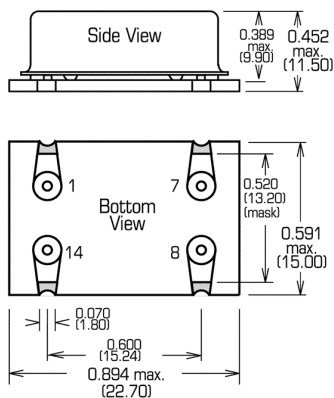
Typical Phase Noise @ 10 MHz

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

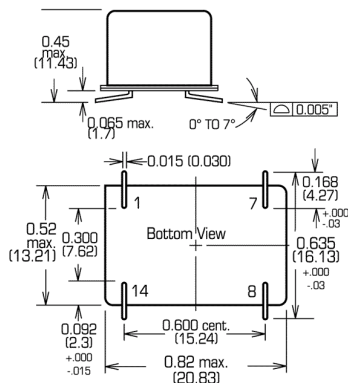


PIN CONNECTIONS

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

Dimensions: Inches (mm)

Gullwing "G" Package

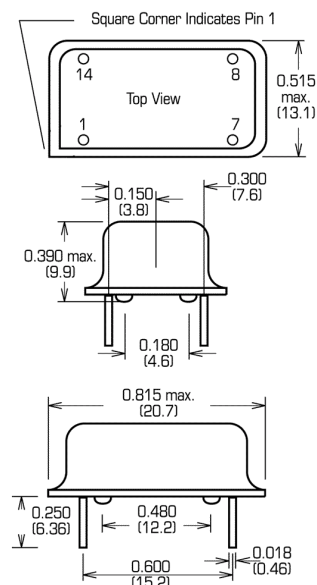


PIN CONNECTIONS

- 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
979	Blank = No EFC V= EVC Option	HAA	T = Through-hole S = SMT G = Gullwing	10M00000

Typical P/N = 979VHAAT10

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.