

Typical Applications

Land Mobile Radio
Cellular Telephony
Radio in the Local Loop
Test Equipment
Digital Switching

Features

Hermetic Seal Package
Wide Temperature Range
High Frequency
Low Aging
EFC Standard
Surface Mount Available
Stratus III Option Available

Frequency Range

> 30 MHz – 622 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 ± 2.0 ppm	966VWAB 966VWAD	966VWHAB 966VWHAD
0.....70°C	± 2.5 ppm ± 5.0 ppm	966VWDE 966VWDF	966VWHDE 966VWHDF
-20....+70°C	± 1.5 ppm ± 2.0 ppm	966VWBC 966VWBD	966VWHBC 966VWHBD
-40....+85°C	± 2.0 ppm ± 2.5 ppm	966VWED 966VWEE	966VWHED 966VWHEE

Note: Model 966 custom versions available with output waveforms of SINE & ECL

Additional Parameters

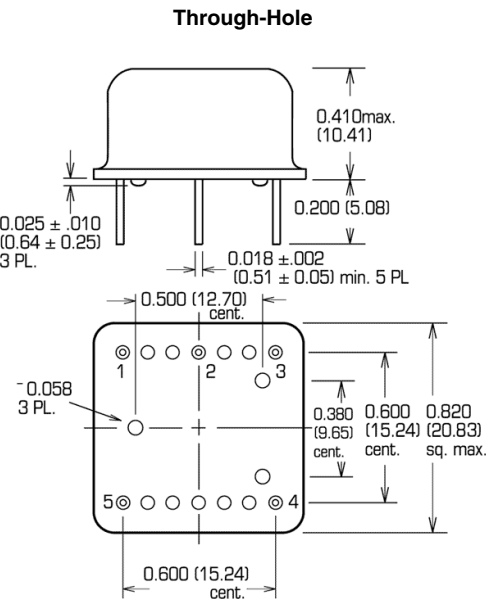
Supply Voltage: +5 Vdc $\pm 5\%$
Current
Clipped Sinewave: 2 mA to 60 mA
CMOS: 10 mA to 60 mA
Aging: ± 1.0 ppm/year
Electrical Frequency Control
Voltage Range: 0.5 to 4.5 Vdc
Deviation: ± 8 ppm min.
(others available)
Slope: Positive
Input Impedance: > 10 kohms

Typical Phase Noise @ 40 MHz

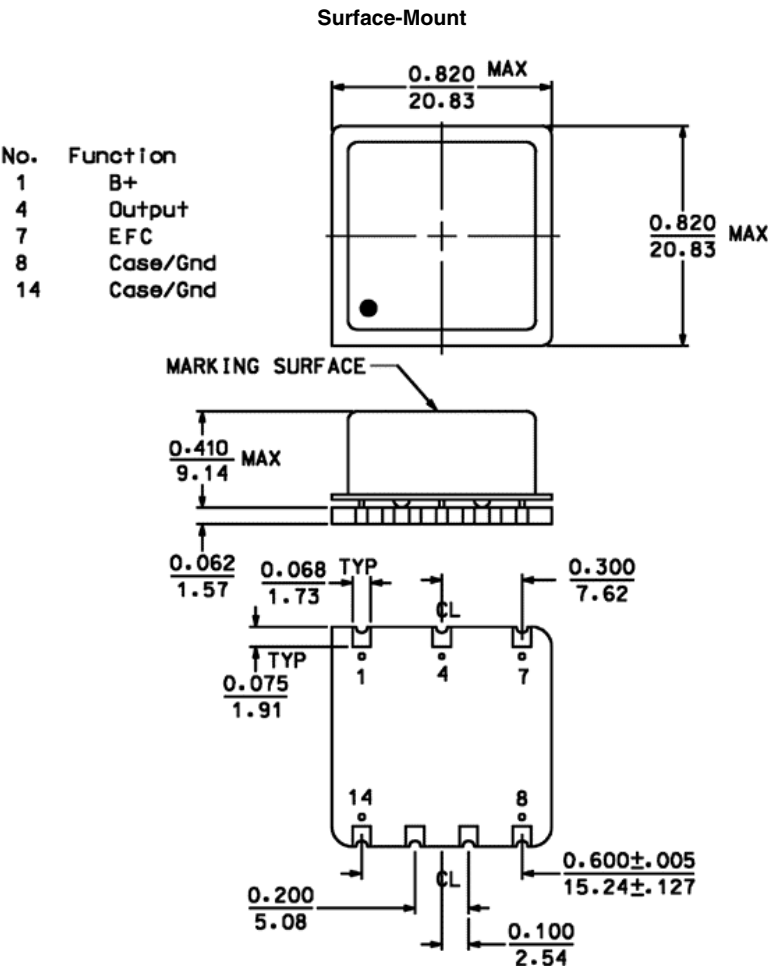
1Hz Offset <- 55 dBc / Hz
10Hz Offset <-90 dBc / Hz
100Hz Offset <-120 dBc / Hz
1kHz Offset <-140dBc / Hz
10kHz Offset <-150dBc / Hz

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

Enclosures



- PIN CONNECTIONS**
- 1 – Supply
 - 2 – RF Output
 - 3 – EFC
 - 4 – GND
 - 5 – GND



Model	EFC	Waveshape Freq. Stab. Temp. Range	Package Code	Frequency
966W	Blank = No EFC V= EFC Option	HAB	T = Through-hole S = Surface-mount	40M00000

Typical P/N = 966VWHABT40

Remove "V" from Model Number when ordering without EFC.
Gull wing option available for surface mounting; contact Factory for details.

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.