

Typical Applications

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

Features

*Hermetic Seal Package
Wide Temperature Range
Compact Size
Wide Frequency Range
High Stability
EFC Standard
Surface Mount 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	966VAA 966VAB 966VAD	966VHAA 966VHAB 966VHAD
0.....70°C	± 1.0 ppm ± 2.5 ppm ± 5.0 ppm	966VDB 966VDE 966VDF	966VHDB 966VHDE 966VHDF
-20.....+70°C	± 1.0 ppm ± 1.5 ppm ± 2.0 ppm	966VBB 966VBC 966VBD	966VHBB 966VHBC 966VHBD
-40.....+85°C	± 2.0 ppm ± 2.5 ppm	966VED 966VEE	966VHED 966VHEE

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

Additional Parameters

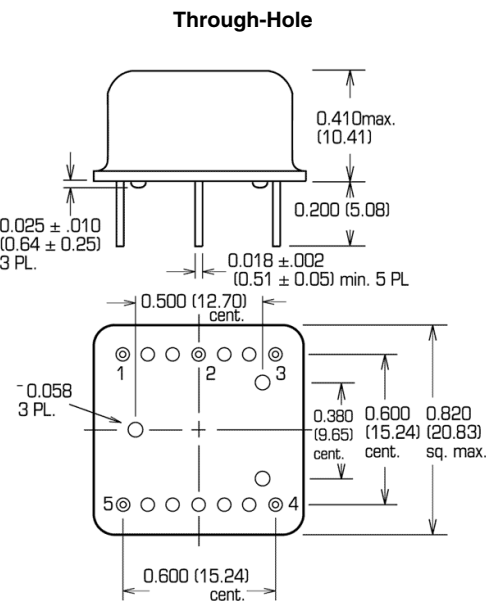
Supply Voltage: +5 Vdc $\pm 5\%$
Current
Clipped Sinewave: 2 mA to 60 mA
CMOS: 10 mA to 60 mA
Aging: ± 1 ppm/year
Electrical Frequency Control
Voltage Range: 0.5 to 4.5 Vdc
Deviation: ± 8 ppm min.
(others available)
Slope: Positive
Input Impedance: > 10 kohms

Typical Phase Noise @ 10 MHz

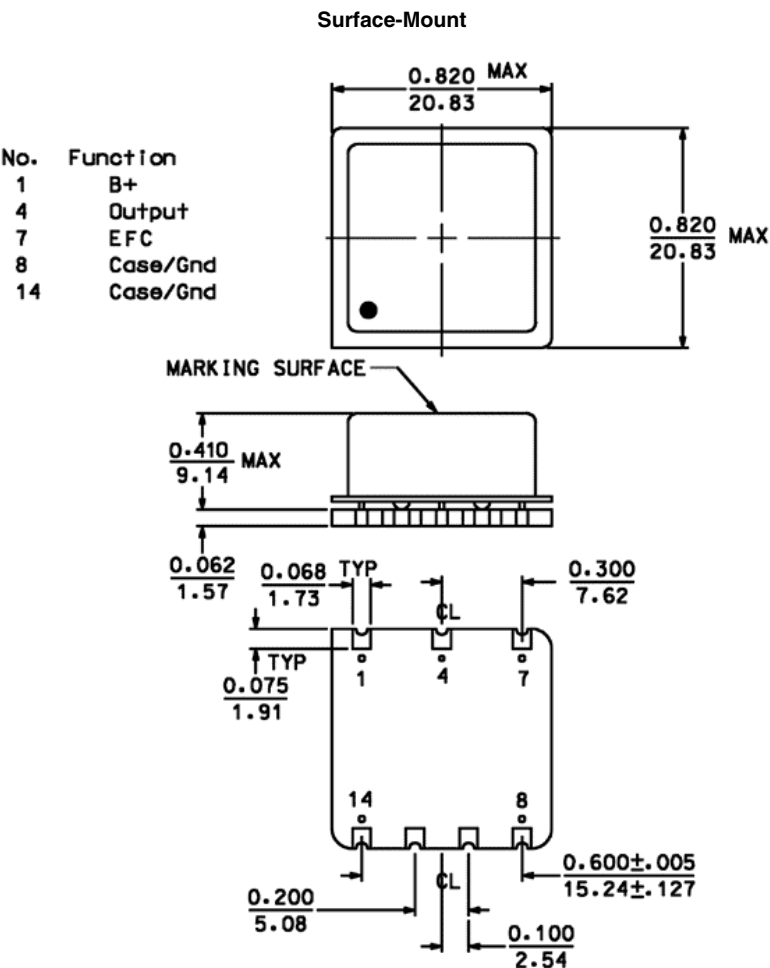
1Hz Offset <- 55 dBc / Hz
10Hz Offset <-90 dBc / Hz
100Hz Offset <-120 dBc / Hz
1kHz Offset <-140dBc / Hz
10kHz Offset <-150dBc / Hz

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

Enclosure



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



Model	EFC	Waveshape Freq. Stab. Temp. Range	Package Code	Frequency
966	Blank = No EFC V= EFC Option	HAA	T = Through-hole S = Surface-mount	10M00000

Typical P/N = 966VHAAT10

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.