

**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 1kΩ)	Square Wave (CMOS)
0....50°C	± 0.5 ppm	966VAA	966VHAA
	± 1.0 ppm	966VAB	966VHAB
	± 2.0 ppm	966VAD	966VHAD
0.....70°C	± 1.0 ppm	966VDB	966VHDB
	± 2.5 ppm	966VDE	966VHDE
	± 5.0 ppm	966VDF	966VHDF
-20....+70°C	± 1.0 ppm	966VBB	966VHBB
	± 1.5 ppm	966VBC	966VHBC
	± 2.0 ppm	966VBD	966VHBD
-40....+85°C	± 2.0 ppm	966VED	966VHED
	± 2.5 ppm	966VEE	966VHEE

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

**Additional Parameters**

Supply Voltage: +5 Vdc ± 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.

