

Typical Applications

*PCS Base Stations
Land Mobile Radio
Cellular Telephony
Radio in the Local Loop
Test Equipment
Avionics*

Features

*High Frequency
Low Profile Package
Standard 4-Pin DIP Package
Mechanical Control, EFC Optional
Surface Mount Options Available*

Frequency Range

> 30 MHz – 200 MHz

Parameters

		Model Numbers	
Operating Temperature Range	Frequency Stability (ppm)	Clipped Sine Wave (1 Vpp min. into 1kΩ)	Square Wave (CMOS)
0....50°C	± 1.0 ppm ± 2.0 ppm	958WAB 958WAD	958WHAB 958WHAD
0.....70°C	± 2.5 ppm ± 5.0 ppm	958WDE 958WDF	958WHDE 958WHDF
-20....+70°C	± 2.0 ppm ± 2.5 ppm	958WBD 958WBE	958WHBD 958WHBE
-30....+70°C	± 1.0 ppm ± 2.0 ppm ± 2.5 ppm	958WCB 958WCD 958WCE	958WHCB 958WHCD 958WHCE
-40....+85°C	± 1.0 ppm ± 2.0 ppm ± 2.5 ppm	958WEB 958WED 958WEE	958WHEB 958WHED 958WHEE

Note: Model 958W custom versions available with output waveforms of CMOS, SINE, ECL & PECL

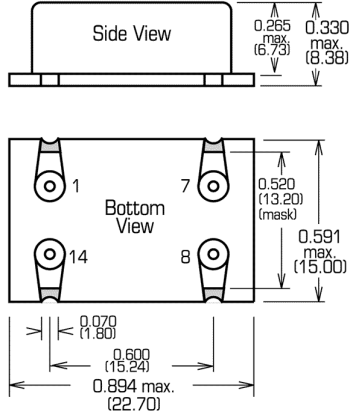
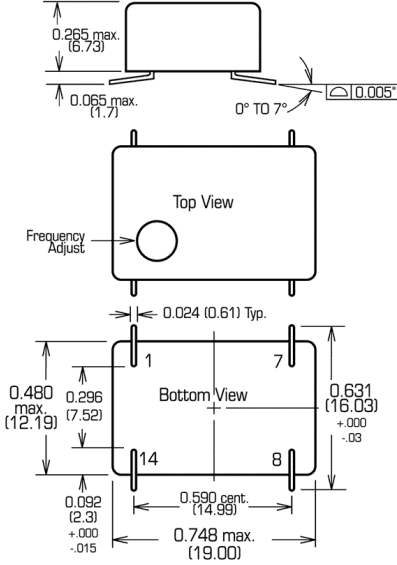
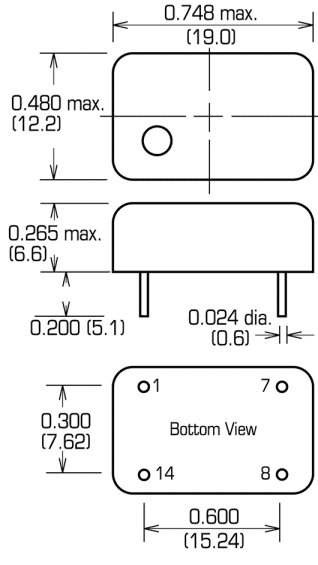
Additional Parameters

Supply Voltage: +5 Vdc ± 5%
Current
Clipped Sinewave: 2 mA to 6 mA
CMOS: 10 mA to 60 mA
Aging: ± 3 ppm, first year
± 1 ppm/year thereafter
Mechanical Frequency Control: ± 3.5 ppm min.
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

Enclosures

SMT "S" Package	Gullwing "G" Package	Through-hole "T" Package
		
Pin Connections 1 Voltage Control or N/C 7 GND 8 RF Output 14 Vcc Dimensions: Inches (mm)	Pin Connections 1 Voltage Control or N/C 7 GND 8 RF Output 14 Vcc Dimensions: Inches (mm)	Pin Connections 1 EFC when specified 7 GND 8 RF Output 14 Supply Voltage Dimensions: Inches (mm)

Model	EFC	Waveshape Freq. Stab. Temp. Range	Package Code	Frequency
958W	Blank = No EFC V= EVC Option	WHAB	T = Through-hole S = SMT G = Gullwing	40M00000

* Typical P/N = 958VWHABT40

Note: Package is non-hermetic