

Typical Applications

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

Features

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

Frequency Range

1 MHz – 30 MHz

Parameters

Parameters		Model Numbers	
		Clipped Sine Wave (1 Vpp min. into 1kΩ)	Square Wave (CMOS)
Operating Temperature Range 0....50°C	± 0.5 ppm	958AA	958HAA
	± 1.0 ppm	958AB	958HAB
	± 2.0 ppm	958AD	958HAD
0.....70°C	± 1.0 ppm	958DB	958HDB
	± 2.5 ppm	958DE	958HDE
	± 5.0 ppm	958DF	958HDF
-20....+70°C	± 1.0 ppm	958BB	958HBB
	± 1.5 ppm	958BC	958HBC
	± 2.0 ppm	958BD	958HBD
	± 2.5 ppm	958BE	958HBE
-30....+70°C	± 1.0 ppm	958CB	958HCB
	± 2.0 ppm	958CD	958HCD
	± 2.5 ppm	958CE	958HCE
-40....+85°C	± 1.0 ppm	958EB	958HEB
	± 2.0 ppm	958ED	958HED
	± 2.5 ppm	958EE	958HEE

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

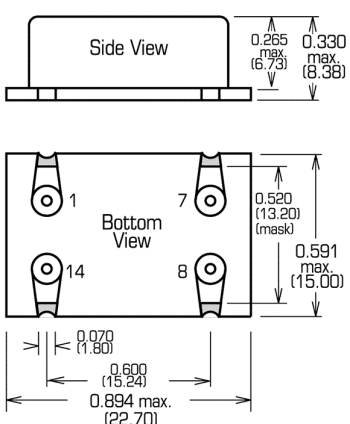
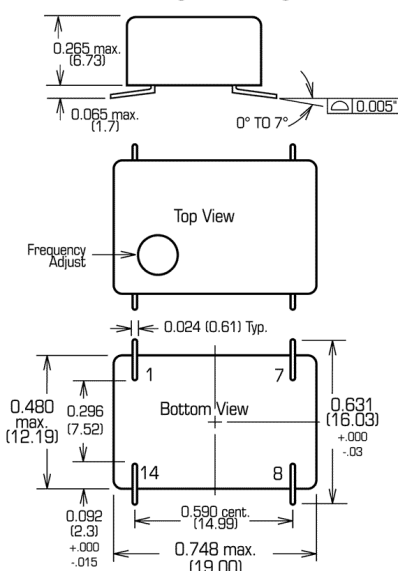
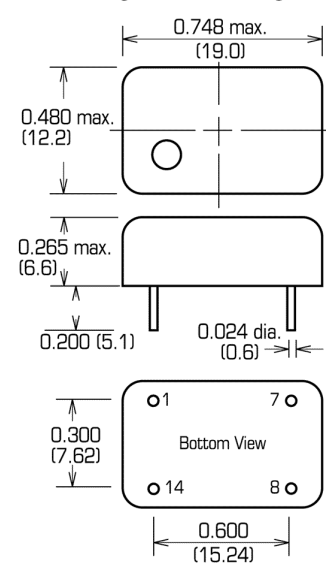
Additional Parameters

Supply Voltage: +5 Vdc ± 5%
 Current
 Clipped Sinewave: 2 mA to 6 mA
 CMOS: 10 mA to 00 mA
 Aging: ± 1 ppm/year
 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 @ 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

Enclosures

<p align="center">SMT "S" Package</p> 	<p align="center">Gullwing "G" Package</p> 	<p align="center">Through-hole "T" Package</p> 
<p align="center">Pin Connections</p> <ul style="list-style-type: none"> 1 Voltage Control or N/C 7 GND 8 RF Output 14 Vcc <p align="right">Dimensions: Inches (mm)</p>	<p align="center">Pin Connections</p> <ul style="list-style-type: none"> 1 Voltage Control or N/C 7 GND 8 RF Output 14 Vcc <p align="right">Dimensions: Inches (mm)</p>	<p align="center">Pin Connections</p> <ul style="list-style-type: none"> 1 EFC when specified 7 GND 8 RF Output 14 Supply Voltage <p align="right">Dimensions: Inches (mm)</p>

Model	EFC	Waveshape Freq. Stab. Temp. Range	Package Code	Frequency
958	Blank = No EFC V= EVC Option	HAA	T = Through-hole S = SMT G = Gullwing	10M00000

* Typical P/N = 958VHAAT10

Note: Package is non-hermetic