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 – 120 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

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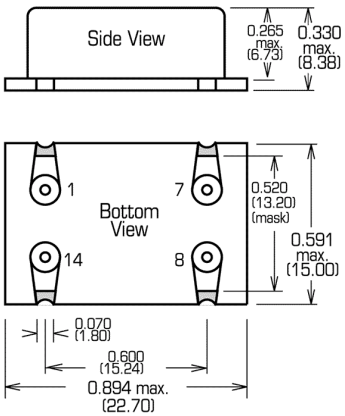
Enclosures

SMT "S" Package

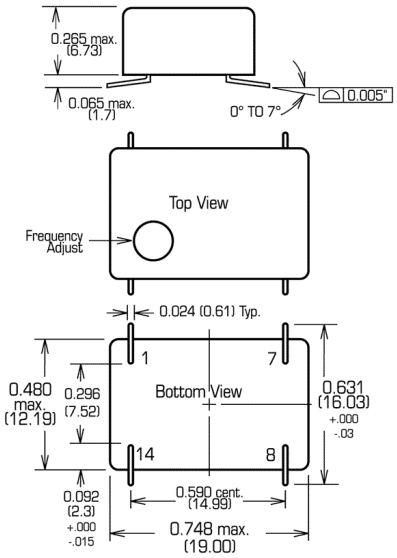


PIN CONNECTIONS

1 – Voltage Control or N/C
7 – GND
8 – RF Output
14 – Vcc

Dimensions: Inches (mm)

Gullwing "G" Package

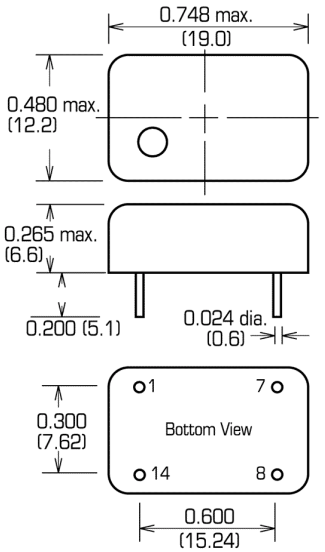


PIN CONNECTIONS

1 – Voltage Control or N/C
7 – GND
8 – RF Output
14 – Vcc

Dimensions: Inches (mm)

Through-hole "T" Package



PIN CONNECTIONS

1 – EFC when specified
(Pin 1 eliminated when not required.)
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

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