Typical Applications

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

Features

High Frequency
Mechanical Control, EFC Optional
Standard 4-Pin DIP Package
Compact Size

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	956WAB 956WAD	956WHAB 956WHAD
0.....70°C	± 2.5 ppm ± 5.0 ppm	956WDE 956WDF	956WHDE 956WHDF
-20....+70°C	± 2.0 ppm ± 2.5 ppm	956WBD 956WBE	956WHBD 956WHBE
-30....+70°C	± 2.0 ppm ± 2.5 ppm	956WCD 956WCE	956WHCD 956WHCE
-40....+85°C	± 2.0 ppm ± 2.5 ppm	956WED 956WEE	956WHED 956WHEE

Note: Model 956 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 15 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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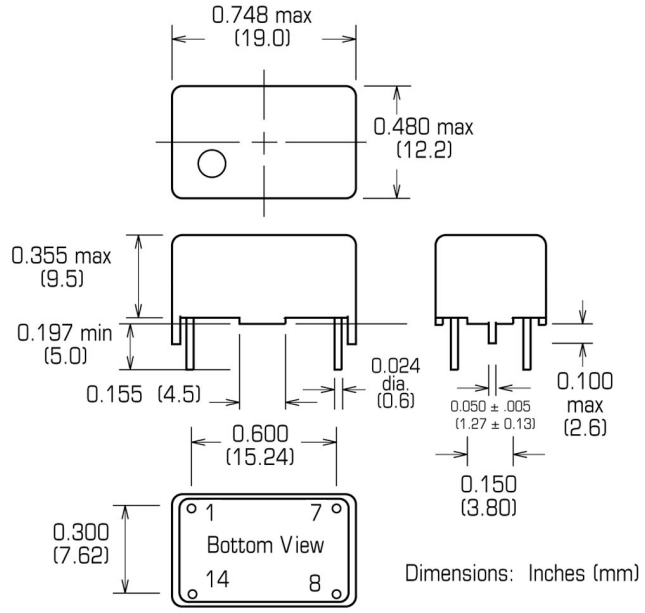
Enclosure



PIN CONNECTIONS

1 – EFC (must be specified; See Ordering page) , or N/C
7 – GND
8 – RF Output
14 – Supply Voltage

Model	EFC	Waveshape Freq. Stab. Temp. Range	Package Code	Frequency
956	Blank = No EFC V= EFC Option	WHAB	T = Through-hole	40M00000

* Typical P/N = 956VHABT40

Note: Package is non-hermetic

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