

Typical Applications

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

Features

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

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 ± 1.0 ppm ± 2.0 ppm	956AA 956AB 956AD	956HAA 956HAB 956HAD
0.....70°C	± 1.0 ppm ± 2.5 ppm ± 5.0 ppm	956DB 956DE 956DF	956HDB 956HDE 956HDF
-20....+70°C	± 1.0 ppm ± 1.5 ppm ± 2.0 ppm ± 2.5 ppm	956BB 956BC 956BD 956BE	956HBB 956HBC 956HBD 956HBE
-30....+70°C	± 2.0 ppm ± 2.5 ppm	956CD 956CE	956HCD 956HCE
-40....+85°C	± 2.0 ppm ± 2.5 ppm	956ED 956EE	956HED 956HEE

Note: Model 956 custom versions available with output waveforms of SINE, ECL & PECL

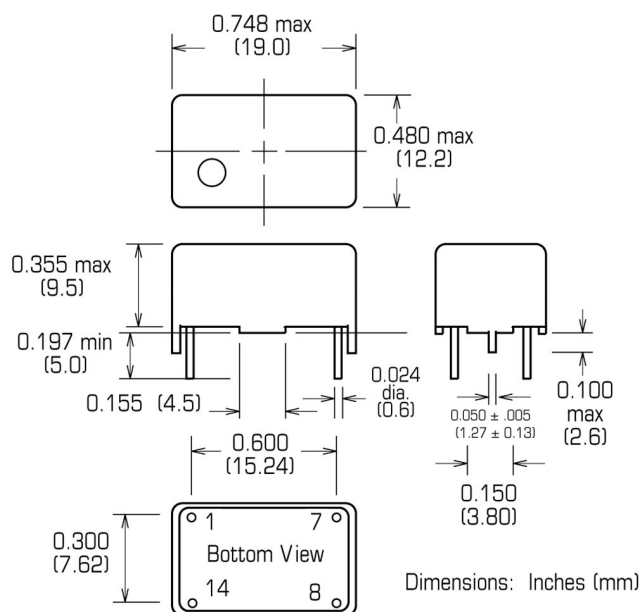
Additional Parameters

Supply Voltage: +5 Vdc ± 5%
Current
Clipped Sinewave: 2 mA to 6 mA
CMOS: 10 mA to 15 mA
Aging: ± 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

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	HAA	T = Through-hole	10M00000

* Typical P/N = 956VHAAT10

Note: Package is non-hermetic