

VFH Series Miniature HCMOS/TTL Compatible Hybrid Crystal Clock Oscillators

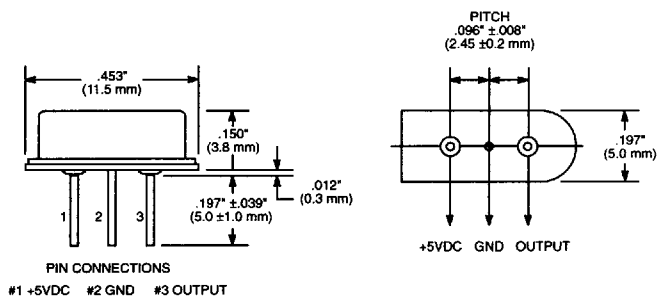
Valpey-Fisher's VFH series of miniature HCMOS/TTL compatible hybrid crystal clock oscillators are the smallest through-hole oscillators available anywhere. In fact this whole oscillator takes up no more board space than a standard microprocessor crystal alone. It is ideal for through-hole use in small, portable electronic devices.

Specifications

Frequency Range	1.8432 MHz to 70 MHz
Frequency Stability	$\pm 0.01\%$
Operating Temp Range	-10°C to +70°C
Input Voltage (V_{DD})	+5 VDC ± 0.5 V
Input Current (max.)	25 mA 1.8432 MHz - 25 MHz 45 mA 25 MHz - 50 MHz 60 mA 50 MHz - 70 MHz
Symmetry @ 2.5V	40/60%
Rise/Fall Time (0.5 - 4.5)	7 ns
Logic "0" - V_{OL} Logic "1" - V_{OH}	0.5 V Max. 4.5 V Min.
Startup Time	10 ms (Max.)
Output Current	$I_{OL} = 16$ mA (Min.) $I_{OH} = -16$ mA (Max.)
Output Load	10 TTL or 50pf
Shock	1000 G's, 0.35 ms, 1/2 Sine Wave, 3 Shocks each plane
Vibration	10-55 Hz, 0.060" D.A., 55-2000 Hz, 35 G's, Duration Time 12 Hrs
Humidity	85% Relative Humidity, 85°C, 250 Hrs
Hermetic Seal	Leak Rate less than 2×10^{-8} Atmos. CC/sec of Helium

*Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. All specifications subject to change without notice.

Package



Oscillator Test Circuit

