

VF1 and VF5 Series Mini Surface Mount Tri-State HCMOS Compatible Hybrid Crystal Clock Oscillator

Valpey-Fisher's VF1 and VF5 series of oscillators are the smallest surface mounted oscillators available anywhere. At 7.5 mm in length and 5.0 mm in width they take up only approximately half of the board space of Valpey-Fisher's sub-miniature oscillator and approximately one quarter of the board space of industry standard miniature surface mount oscillators. Their mini size makes them ideal for applications in such compact, portable devices as small video cameras or disk drives.

The VF1 series has a frequency range of 1.8432MHz to 50.0MHz and drives 10 LS-TTL gates. The VF5 series has a frequency range of 1.8432MHz to 67.0MHz and drives 10 N-TTL gates.

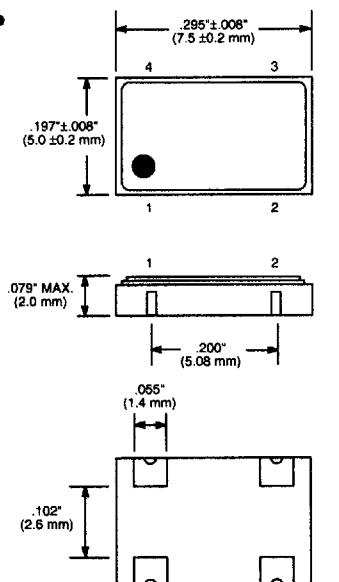
Specifications

VF Type Number	VF1	VF5
Frequency Range (MHz)	1.8432 MHz - 50.0 MHz	1.8432 MHz - 67.0 MHz
Frequency Stability - 50 ppm - 100 ppm	VF1B VF1	VF5B VF5
Operating Temperature Range	-10°C to +70°C	
Input Voltage	+4.5 V to +5.5 V	
Input current (max) 1.8432 MHz to 25.0 MHz 25.0 MHz to 50.0 MHz 50.0 MHz to 67.0 MHz	20 mA 35 mA -	25 mA 45 mA 60 mA
Symmetry (1/2 V_{DD})	40/60% max	
Rise/Fall Time (0.5 - 4.5 V_{DD})	10 ns max	
Logic "0" V_{OL} Logic "1" V_{OH}	0.5 max 4.5 min	
Enable Input Disable Input	2.2 V (min) @ 0.4 mA 0.8 V (max) @ 0.4 mA	
Output Load	10 LSTTL/15pf	10 N-TTL/50pf

Enable/Disable Function

Enable High (Pin 1)	Output (Pin 3)
Open	Active
"1" level (VIH ≥ 2.2V)	Active
"0" level (VIH ≤ 0.8V)	High Z

Package



Pin Connections

- #1 Enable High (E/D)
- #2 GND
- #3 Output
- #4 V_{DD}

Recommended Solder Pad Layout

