

**VF150-C and VF150-C1 Series
Enable/Disable
TTL Hybrid Crystal Clock
Oscillators**

Valpey-Fisher's VF150-C (enable high) and VF150-C1 (enable low) series of TTL oscillators allow a user the option of setting an output state for the oscillator. This feature serves multiple purposes in a circuit, one of which is acting as a functional switch. The specifications of these oscillators with its enable/disable feature are the same as those of Valpey-Fisher's VF150 series TTL oscillators.

Specifications

Frequency Range	250 KHz to 25.0 MHz
Output:	TTL
Symmetry	60/40 to 40/60% @ 1.4 VDC level standard. 45/55 symmetry available.
Rise & Fall Times	15 ns max. between 0.4 VDC and 2.4 VDC levels (250 KHz to 4 MHz) 10 ns max. between 0.4 VDC and 2.4 VDC levels (4.01 MHz to 25 MHz)
"0" Level	+0.4V max., sinking 16 mA min. (250 KHz to 25 MHz)
"1" Level	+2.7V min., sourcing—0.4 mA min. (250 KHz to 25 MHz)
Fanout	10 TTL gates
Short Circuit	
Output Current	18 mA min.
Input Voltage	+5 VDC, ±10%
Input Current (max., unloaded)	70 mA 250 KHz to 3.999 MHz 30 mA 4.00 MHz to 25.00 MHz
Enable/Disable Input Voltage	V _{ih} "1" level 2.2 Volts Min. V _{il} "0" level 0.8 Volts Min.
Enable/Disable Input Current	I _{ih} "1" level 10.0 microA max. I _{il} "0" level 150.0 microA max.
Storage Temperature	-55°C to +125°C
Package	See Oscillator Package Chart.
Electrical Connections	PIN #1 Enable/Disable PIN #7 Case GND PIN #14 + 5 VDC PIN #8 Output

Type Numbers and Options

VF Type Number	Frequency Range (MHz)	Stability (%)	Option	Operating Temperature Range (°C)		
				0 to +70 Standard	-40 to +85 Option 1	-55 to +125 Option 2
VF154-C VF154-C1	0.25 to 1.124	0.0025	A	VF154A-C	VF154A-1-C	VF154A-2*-C
		0.005	B	VF154B-C	VF154B-1-C	VF154B-2-C
		0.01	Standard	VF154-C	VF154-1-C	VF154-2-C
		0.05	C	VF154C-C	VF154C-1-C	VF154C-2-C
		0.25	D	VF154D-C	VF154D-1-C	VF154D-2-C
		0.0025	A	VF153A-C	VF153A-1-C	VF153A-2*-C
		0.005	B	VF153B-C	VF153B-1-C	VF153B-2-C
		0.01	Standard	VF153-C	VF153-1-C	VF153-2-C
VF153-C VF153-C1	1.125 to 2.249	0.05	C	VF153C-C	VF153C-1-C	VF153C-2-C
		0.25	D	VF153D-C	VF153D-1-C	VF153D-2-C
		0.0025	A	VF152A-C	VF152A-1-C	VF152A-2*-C
		0.005	B	VF152B-C	VF152B-1-C	VF152B-2-C
VF152-C VF152-C1	2.250 to 3.999	0.01	Standard	VF152-C	VF152-1-C	VF152-2-C
		0.05	C	VF152C-C	VF152C-1-C	VF152C-2-C
		0.25	D	VF152D-C	VF152D-1-C	VF152D-2-C
		0.0025	A	VF150A-C	VF150A-1-C	VF150A-2*-C
VF150-C VF150-C1	4.00 to 25.00	0.005	B	VF150B-C	VF150B-1-C	VF150B-2-C
		0.01	Standard	VF150-C	VF150-1-C	VF150-2-C
		0.05	C	VF150C-C	VF150C-1-C	VF150C-2-C
		0.25	D	VF150D-C	VF150D-1-C	VF150D-2-C

* -55°C to +105°C
Custom stability tolerances and temperature ranges are available.