

VF75 Series Half-Size TTL Hybrid Crystal Clock Oscillators

Valpey-Fisher's VF75 series designates TTL oscillators in 8 pin DIP packages — approximately "half the size" of Valpey-Fisher's VF150 series oscillators. Valpey-Fisher's VF75 half-size oscillators are designed to save critical circuit board "real estate" and meet the performance specification of Valpey-Fisher's full size VF150 series of TTL oscillators.

Specifications

Frequency Range	250 KHz to 100.0 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 20 MHz) 6 ns max. between 0.5 VDC and 2.7 VDC levels (20.01 MHz to 100 MHz)
"0" Level	+0.4V max., sinking 16 mA min. (250 KHz to 20 KHz) +0.5V max., sinking 20 mA min. (20.01 MHz to 100 MHz)
"1" Level	+2.7V min., sourcing—0.4 mA min. (250 KHz to 20 MHz) +2.4V min., sourcing—0.4 mA min. (20.01 MHz to 100 MHz)
Fanout	10 TTL gates
Short Circuit Output Current	18 mA min.
Input Voltage	+5 VDC, $\pm 10\%$
Input Current (max., unloaded)	70 mA 250 KHz to 3.999 MHz 30 mA 4.00 MHz to 20.00 MHz 50 mA 20.01 MHz to 70.00 MHz 100 mA 70.01 MHz to 100 MHz
Storage Temperature	-55°C to +125°C
Package	See Oscillator Package Chart.
Electrical Connections	PIN #1 N.C. PIN #4 Case GND PIN #8 + 5 VDC PIN #5 Output

Type Numbers & Options

Type Number	Frequency Range (MHz)	Stability (%)	Option	Operating Temp. Range (°C)		
				0 to +70 Standard	-40 to +85 Option 1	-55 to +125 Option 2
VF75	0.25 to 100.0	0.0025	A	VF75A	VF75A-1	VF75A-2*
		0.005	B	VF75B	VF75B-1	VF75B-2
		0.01	Standard	VF75	VF75-1	VF75-2
		0.05	C	VF75C	VF75C-1	VF75C-2
		0.25	D	VF75D	VF75D-1	VF75D-2

* -55°C to +105°C

Custom stability tolerances and temperature ranges are available.