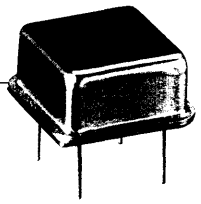
VF494



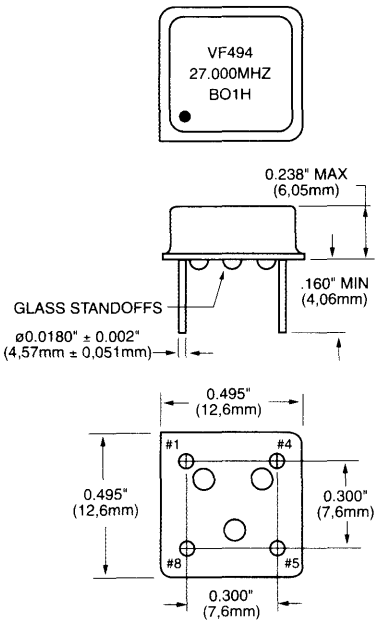
8 Pin DIP VCXO
HCMOS/TTL Compatible

APPLICATIONS

Networking equipment, portable electronics, PLL applications, high speed video imaging

FEATURES

- Low Cost
- Standard Footprint
- Small Size



All dimensions are typical unless otherwise specified.

Creating a Part Number

VF494 □-□-□-FREQ.

INPUT VOLTAGE	
Code	Specification
L	3.3 Volt ±5%
	5.0 Volt ±5% (std.)

ABSOLUTE PULL RANGE (ppm)	
Code	Specification
	±50 ppm MIN. (std.)
XXX	up to 200 ppm MAX.

(customer specified)

LEAD CONFIGURATION	
Code	Specification
GR	Gull Wing
G	Gull Wing
	Through Hole (std.)

Example: VF494L-G-XXX-27MHz: Input Voltage 3.3 Volt ±5%, Lead Configuration Gull Wing, Absolute Pull Range up to 200 ppm max.

	Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Absolute Max. Ratings	Input Break Down Voltage	Vcc		-0.5		7.0	V	
	Storage Temp.	Ts		-40		+85	°C	
	Control Voltage	Vc		-1		9	V	
Electrical	Frequency Range	F		1.0		50	MHz	
	Frequency Stability	ΔF/F	vs. Temp., Vcc			±25	ppm	
	Input Voltage	Vcc		4.75 3.15	5.00 3.30	5.25 3.45	V	Std. LV Opt.
	Input Current	Icc	Max load		35		mA	@20MHz
	Load	10 TTL gates or 15pF MAX						
	Duty Cycle		@0.5Vcc	40	50	60	%	
	Rise/Fall Time	Tr/Tf				8	ns	
	Logic "1" Level	Voh	Loaded	0.9Vcc				
	Logic "0" Level	Vol	Loaded			0.1Vcc		
	Start-up Time	Ts			2	10	ms	
	Phase Jitter		1σ, F<45MHz			1	ps	fj>1KHz
	Modulation BW		@Vc = 2.5V	10			KHz	@-3db
	Input Impedance		fm<10KHz	50			KOhm	
	Control Voltage	Vc	Vcc = 5V Vcc = 3.3V	0.0 0.0	2.50 1.65	5.00 3.30	V	
	Deviation Slope		Monotonic, positive		50 100		ppm/V	Vcc = 5.00 Vcc = 3.30
	Linearity					±15	%	
	Pullability					±100	ppm	
	Setability (Vc for center freq)	Vc0	@25°C, Fnom.	2.00 1.25	2.50 1.65	3.00 2.05	V	Vcc = 5.0V Vcc = 3.3V

Environmental and Mechanical	Operating Temperature Range	0°C to +70°C
	Mechanical Shock	Per MIL-STD-202, Method 213, Cond. E
	Thermal Shock	Per MIL-STD-883, Method 1011, Cond. A
	Vibration	Per MIL-STD-883, Method 2007, Cond. A
	Soldering Conditions	260°C, for 10s, Max.
	Hermetic Seal	Leak rate less than 5 x 10^{-8} atm.cc/s of helium
Electrical Connections	Pin Out	Pin #1-Voltage Control Pin #5-Output Pin #4-Ground, Case Pin #8-Vcc

All specifications are subject to change without notice.