

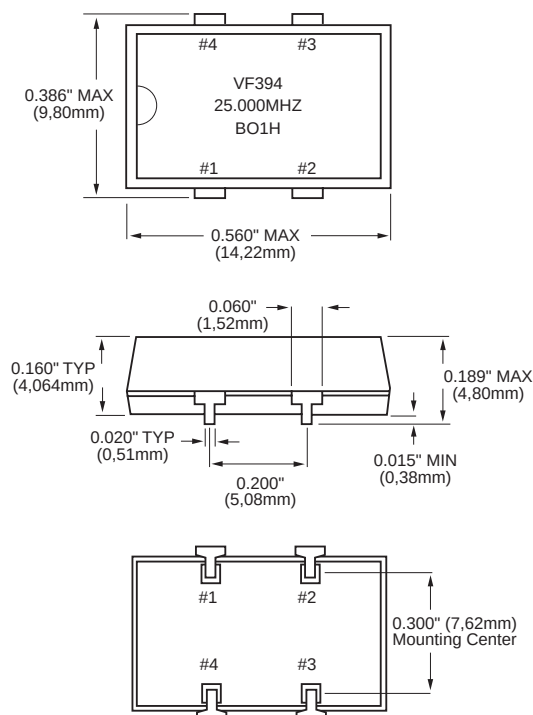
VF394 Series



HCMOS/TTL Compatible Hybrid VCXO 4 Pin Plastic J-Lead

FEATURES

- Low Cost
- HCMOS/TTL Output
- Tape and Reel



All dimensions are typical unless otherwise specified.

Creating a Part Number

VF394 FREQ.

DUTY CYCLE	
Code	Specification
H	±5%
	±10% (std.)

OPERATIONAL TEMP. RANGE	
Code	Specification
	-20°C to +70°C (std.)
1	-40°C to +85°C

Example: VF394H-1-19.44MHz: Frequency Stability ±25ppm, Duty Cycle ±5.0%, Input Voltage 5.0 Volt ±5%, Operating Temperature -40°C to +85°C, Output Frequency 25MHz.

	Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Absolute Max. Ratings	Input Break Down Voltage	Vcc		−0.5		7.0	V	
	Storage Temp.	Ts		−55		+125	°C	
	Control Voltage	Vc		−1		9	V	
Electrical	Frequency	F		1.5		30	MHz	
	Frequency Stability	ΔF/F	vs. Temp., Vcc,			±25	ppm	
	Input Voltage	Vcc		4.75	5.00	5.25	V	
	Load	2 TTL or 15pF						
	Duty Cycle		@50%	40	50	60	%	
	Rise/Fall Time	Tr/Tf	10% – 90%			8	ns	
	Logic “1” Level	Voh	Ioh = −0.8mA	4.0			V	
	Logic “0” Level	Vol	Iol = +1.6mA			0.4	V	
	Start-up Time	Ts				4	ms	
	Modulation Bandwidth	fm	@2.5V	10			KHz	@−3dB
Environmental and Mechanical	Control Voltage	Vc	0.5			4.5	V	
	Absolute Pull Range (guaranteed capture range)		Overall, includes stability over temp., aging 5 yrs., etc.	±50			ppm	
	Operating Temperature Range	−20°C to +70°C (−40°C to +85°C available)						
	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	230°C, for 90s, Max.						
Pin Connections	Pin Out	Pin #1–Voltage Control Pin #2–Ground			Pin #3–Output Pin #4–Vcc			