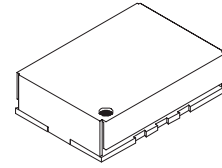




## VC2, VC3 VCXO Series



- 6 Pad Leadless Surface Mount Voltage Controlled Xtal Oscillator
- CMOS/ TTL Compatible (VC2 without E/D, VC3 with E/D)

1.500 MHz – 200.00 MHz

### Standard Specifications

<b>Overall Frequency Stability</b>	± 15, 25, 50, 100 PPM over Operating Temperature Range
<b>Operating Temperature Range</b>	0 to +70°C is standard, but can be extended to -40 to +85°C for certain frequencies
<b>Supply Voltage (Vcc)</b>	5.0 volts and 3.3 volts available
<b>Output Load</b>	Std load is 15pF max., see Test Circuit 7 for VC2, TC 8 for VC3 (consult factory for heavier loads)
<b>Control Voltage Range (CVR)</b>	0.5 to 4.5 volts for 5.0 volt Supply; 0.0 to 3.3 volts for 3.3 volt Supply
<b>Pullability over CVR</b>	± 25, 50, 100, 150, 200 PPM. Consult factory for ± 300 PPM.
<b>Linearity</b>	± 10% (Consult factory for ± 5%)
<b>VC3 Enable/Disable Option (E/D)</b>	Output enabled when Pin #2 is open or at Logic "1"; Output disabled when Pin #2 is at Logic "0".

Frequency Range (MHz)	Supply Current Icc (mA)		Rise and Fall Time Tr & Tf (nS)	
	Typical	Maximum	Typical	Maximum
1.500 – 20.000	10	15	3.5	5.0
20.001 – 30.000	20	25	3.0	4.5
30.001 – 50.000	25	30	3.0	4.0
50.001 – 60.000	30	35	2.5	3.5
60.001 – 200.00	Consult Factory for values			

### Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)

**Packaging**  
Tube or  
24mm tape  
16mm pitch

**Supply Voltage**  
Blank= 5.0 volts ±5%  
3= 3.3 volts ±5%

**Model**  
VC22H=without E/D  
VC32H=with E/D

**Frequency Stability**  
15: ± 15 PPM  
25: ± 25 PPM  
50: ± 50 PPM  
100: ± 100 PPM

**Frequency in MHz**  
**Frequency Deviation (Pullability) over CVR**  
T: ± 25 PPM      X: ± 150 PPM  
V: ± 50 PPM      Y: ± 200 PPM  
W: ± 100 PPM     Z: ± 300 PPM

**Operating Temperature Range**  
A: 0 to +50°C      D: -20 to +75°C  
B: 0 to +70°C      E: -30 to +75°C  
C: -10 to +70°C     F: -40 to +85°C

VC22H		VC32H	
PIN	SIGNAL	PIN	SIGNAL
1	Vcon	1	Vcon
2	N.C. *	2	E/D *
3	GND	3	GND
4	OUT	4	OUT
5	N.C.	5	N.C.
6	Vcc	6	Vcc

Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

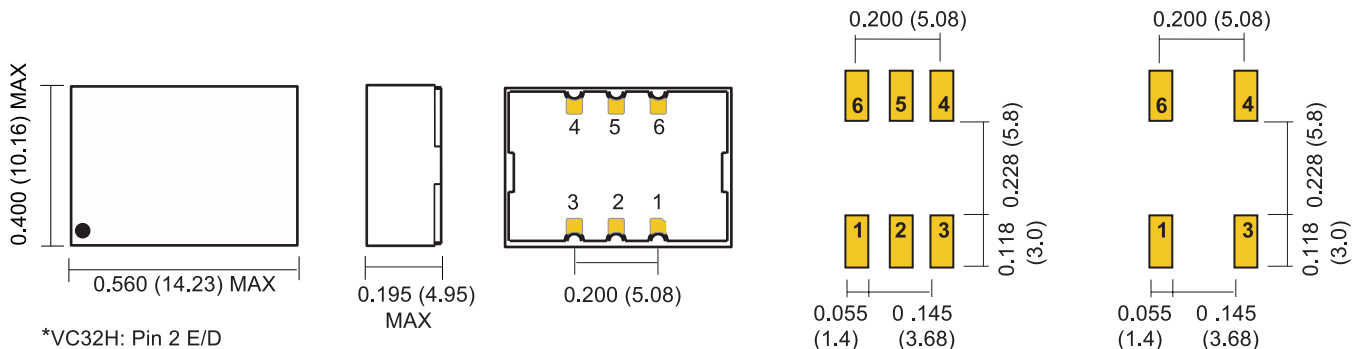
### Mechanical: inches (mm)

not to scale

### VC3 Solder Pads

### VC2 Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.



\*VC32H: Pin 2 E/D

\*VC22H: Pin 2 N.C. (do NOT connect to Pin 2)