



## HIGH STABILITY CLOCK OSCILLATORS IN 14 PIN DIP - XO14H Series

### FEATURES

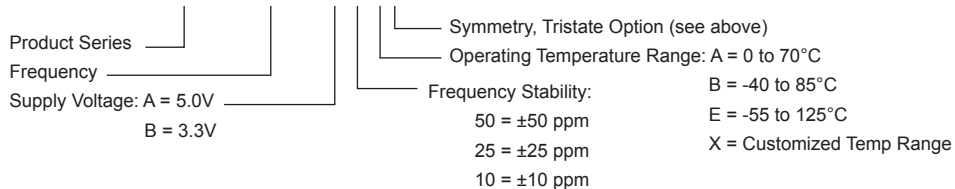
- RoHS Compliant (Pb-Free), Wide Frequency Range, Industrial and Military Temperature Available
- As Stable as  $\pm 5$  ppm over  $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ , 5 VDC or 3.3 VDC Option
- Tri-state Output Available, Industry Standard Lead Spacing
- Taller Package (8 mm Height Maximum) with Sealed Crystal Resonator Inside

### SPECIFICATIONS

<b>Frequency Range</b>	1 MHz to 160 MHz
<b>Input Voltage (Vcc)</b>	A = +5 VDC $\pm 5\%$ ; B = +3.3 VDC $\pm 5\%$
<b>Input Current</b>	65 mA Maximum, depending on frequency and output load
<b>Storage Temperature</b>	$-55^{\circ}\text{C}$ to $125^{\circ}\text{C}$
<b>Frequency Stability over Temp. Temperature Range</b>	50 = $\pm 50$ ppm; 25 = $\pm 25$ ppm; 10 = $\pm 10$ ppm; 5 = $\pm 5$ ppm, Ref. to $25^{\circ}\text{C}$ A = $0^{\circ}\text{C}$ to $70^{\circ}\text{C}$ ; B = $-40^{\circ}\text{C}$ to $85^{\circ}\text{C}$ ; E = $-55^{\circ}\text{C}$ to $125^{\circ}\text{C}$ ; F = $0^{\circ}\text{C}$ to $50^{\circ}\text{C}$
<b>Electric Option (Symmetry)</b>	0 = No tristate 60/40%; 2 = No tristate 55/45%; 4 = No tristate 52.5/47.5% 1 = Tristate 60/40%; 3 = Tristate 55/45%; 5 = Tristate 52.5/47.5%
<b>Output Load</b>	HCMOS/TTL, or AC MOS compatible (10 TTL gates or 50 pF MAX)
<b>Logic "1" / Logic "0" Level</b>	0.9Vcc Minimum / 0.1Vcc Maximum
<b>Rise/Fall Time (Tr/Tf)</b>	6 ns Maximum
<b>Start-up time</b>	10 ms Maximum
<b>Phase Jitter (RMS, 1 Sigma)</b>	1 ps Max for $f_j > 1\text{kHz}$ ; 0.3 ps Typical for $f_j = 12\text{kHz}$ to $20\text{MHz}$
<b>Tristate Function</b>	Input (Pin 1) High ( $> 2.2\text{V}$ ) or open: Output (Pin 8) active Input (Pin 1) Low ( $< 0.8\text{V}$ ): Output disabled in high impedance
<b>Enable Time</b>	100 ns Maximum
<b>Frequency Stability over Load</b>	$\pm 3$ ppm Max. for 10% variation of load at Vcc = +5.0 VDC at $25^{\circ}\text{C}$
<b>Frequency Stability over Vcc</b>	$\pm 5$ ppm Max. for 5% variation at Vcc = +5.0 VDC and standard load at $25^{\circ}\text{C}$

### Creating a Part Number

**XO14H-10M000-A10F3**



### OUTLINE DRAWING

