



HIGH STABILITY CLOCK OSCILLATORS IN 14 PIN DIP - XO14H Series

FEATURES

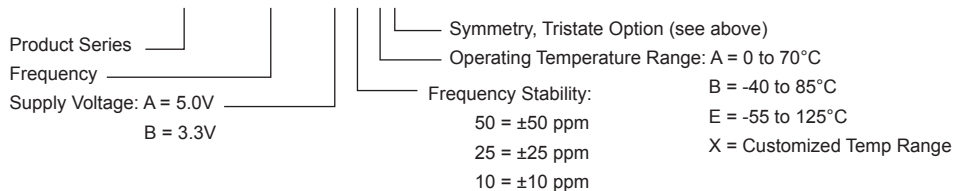
- RoHS Compliant (Pb-Free), Wide Frequency Range, Industrial and Military Temperature Available
- As Stable as ± 5 ppm over 0°C to 50°C , 5 VDC or 3.3 VDC Option
- Tri-state Output Available, Industry Standard Lead Spacing
- Taller Package (8 mm Height Maximum) with Sealed Crystal Resonator Inside

SPECIFICATIONS

Frequency Range	1 MHz to 160 MHz
Input Voltage (Vcc)	A = +5 VDC $\pm 5\%$; B = +3.3 VDC $\pm 5\%$
Input Current	65 mA Maximum, depending on frequency and output load
Storage Temperature	-55°C to 125°C
Frequency Stability over Temp. Temperature Range	50 = ± 50 ppm; 25 = ± 25 ppm; 10 = ± 10 ppm; 5 = ± 5 ppm, Ref. to 25°C A = 0°C to 70°C ; B = -40°C to 85°C ; E = -55°C to 125°C ; F = 0°C to 50°C
Electric Option (Symmetry)	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%
Output Load	HCMOS/TTL, or AC MOS compatible (10 TTL gates or 50 pF MAX)
Logic "1" / Logic "0" Level	0.9Vcc Minimum / 0.1Vcc Maximum
Rise/Fall Time (Tr/Tf)	6 ns Maximum
Start-up time	10 ms Maximum
Phase Jitter (RMS, 1 Sigma)	1 ps Max for $f_j > 1\text{kHz}$; 0.3 ps Typical for $f_j = 12\text{KHz}$ to 20MHz
Tristate Function	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
Enable Time	100 ns Maximum
Frequency Stability over Load	± 3 ppm Max. for 10% variation of load at Vcc = +5.0 VDC at 25°C
Frequency Stability over Vcc	± 5 ppm Max. for 5% variation at Vcc = +5.0 VDC and standard load at 25°C

Creating a Part Number

XO14H-10M000-A10F3



OUTLINE DRAWING

