HCMOS/TTL COMPATIBLE CLOCK OSCILLATORS IN 14 PIN DIP - XO14 Series

FEATURES

- RoHS Compliant (Pb-Free), Wide Frequency Range, Industrial and Military Temperature Available
- Very Low Phase Jitter with Fundamental or 3rd Overtone Crystal Design
- Tri-state Output Available, Industry Standard Lead Spacing
- Low Cost, Excellent for 16 and 32 Bit MPU's

SPECIFICATIONS

Frequency Range	120 kHz to 125 MHz
Input Voltage (Vcc)	A = +5 VDC ± 10%; B = +3.3 VDC ± 10%
Input Current	60 mA Maximum, depending on frequency and output load
Storage Temperature	-55°C to 125°C
Overall Frequency Stability	100 = ±100 ppm; 50 = ±50 ppm; 25 = ±25 ppm; 20 = ±20 ppm
Temperature Range	A = 0°C to 70°C; B = -40°C to 85°C; E = -55°C to 125°C
Standard Stability	100A = ± 100 ppm / 0°C to 70°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: Drive up to 50 pF load; TTL: Drive up to 10 TTL gates
Logic "1" / Logic "0" Level	0.9Vcc Minimum / 0.1Vcc Maximum
Rise/Fall Time (Tr/Tf)	10 ns Maximum - 500 kHz to 25 MHz 6 ns Maximum - 25.10 MHz to 70 MHz 4 ns Maximum - 70.10 MHz to 125 MHz
Start-up time	10 ms Maximum
Phase Jitter (RMS, 1 Sigma)	1 ps Max for fj > 1kHz; 0.3 ps Typical for fj = 12KHz to 20MHz
Tristate Function	Input (Pin 1) High (> 2.2V) or open: Output (Pin 8) active Input (Pin 1) Low (< 0.8V): Output disabled in high impedance
Enable Time	100 ns Maximum

Creating a Part Number **XO14-106M250-A50A3**

- Product Series: XO14
- Frequency: 106M250
- Supply Voltage: A = 5.0V; B = 3.3V
- Frequency Stability: 100 = ±100 ppm; 50 = ±50 ppm; 20 = ±20 ppm
- Operating Temperature Range: A = 0 to 70°C; B = -40 to 85°C; E = -55 to 125°C; X = Customized Temp Range
- Symmetry, Tristate Option (see above): A50

OUTLINE DRAWING