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) Input Current Storage Temperature	A = +5 VDC ± 10%; B = +3.3 VDC ± 10% 60 mA Maximum, depending on frequency -55°C to 125°C	and output load
Overall Frequency Stability Temperature Range Standard Stability	100 = ±100 ppm; 50 = ±50 ppm; 25 = ±25 A = 0°C to 70°C; B = -40°C to 85°C; E = -5 100A = ± 100 ppm / 0°C to 70°C	
Electric Option (Symmetry)	0 = No tristate 60/40%; 2 = No tristate 55/4 1 = Tristate 60/40%; 3 = Tristate 55/45%; 5	
Output Load Logic "1" / Logic "0" Level Rise/Fall Time (Tr/Tf)	HCMOS: Drive up to 50 pF load; TTL: Drive 0.9Vcc Minimum / 0.1Vcc Maximum 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	e up to 10 TTL gates
Start-up time Phase Jitter (RMS, 1 Sigma) Tristate Function	10 ms Maximum 1 ps Max for fj > 1kHz; 0.3 ps Typical for fj Input (Pin 1) High (> 2.2V) or open: Output Input (Pin 1) Low (< 0.8V): Output disabled	(Pin 8) active
Enable Time	100 ns Maximum	
Creating a Part Number XO14-106M250-A50A3		
Product Series Frequency —	Operating Temperature Range: A = 0 to 70°C	
Supply Voltage	B = 3.3V 100 = ±100 ppm	
OUTLINE DRAWING	$50 = \pm 50 \text{ ppm}$ $20 = \pm 20 \text{ ppm}$	
MARKING AREA 20.8 MAX Pin 1	(0) (15.24) (Glasss Standoffs
	Pin Connections #1: E/D or NC #7: Ground #8: Output	Available in Gull Wing Configuration
All dimensions are typical unless otherwise s		Dimensions in Millimeters