Clock Oscillators

1.0MHz to 100.0MHz

FEATURES

- TTL Compatible.
- Industrial temperature optional.

ELECTRICAL SPECIFICATIONS

Operating Temperature Range: 0°C to + 70°C. (- 40°C to + 85°C optional for .005% ("A") and .01% ("B") Stability's).
Frequency Stability: .01% Standard (.0025% and .005% optional).
Input Voltage: + 5.0VDC ± 0.5V.
Output Load: 1 to 10 TTL loads.

MECHANICAL SPECIFICATIONS

Marking Ink: Epoxy, solvent resistant.
Hermetically Sealed Package: Leak rate less than 2 x 10^{-8} atmosphere cc/sec. of helium.
Terminal Solderability: A minimum of 95% coverage after solder dip.

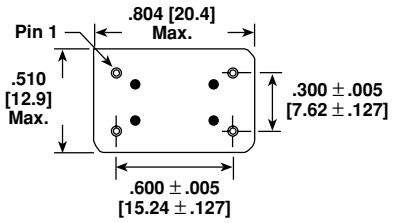
ENVIRONMENTAL SPECIFICATIONS

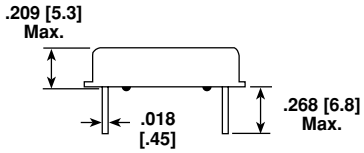
Temperature Cycle: - 55°C to + 85°C, 3 cycles.
Shock: 1000g, 0.35 millisecond, 1/2 sine wave, 3 shocks each plane.
Vibration: .06 D.A., 10 - 55Hz, 20g, 55 - 200Hz.
Humidity: 85% relative humidity at + 85°C, 240 hours.

STANDARD ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE (MHz)	INPUT CURRENT (mA) (Max.)	WAVEFORM SYMMETERY At 1.4Vdd	RISE AND FALL TIME (nS) (Typ. Max.)	"ZERO" LEVEL 10%Vdd (Typ. Max.)	"ONE" LEVEL 90%Vdd (Typ. Min.)
1.0 to 8.999	20	40/60	10	0.3/0.4	4.5/3.0
9.0 to 23.999	20	40/60	5	0.3/0.4	4.5/3.0
24.0 to 31.999	30	40/60	5	0.3/0.4	4.5/3.0
32.0 to 69.999	30	40/60	4	0.3/0.4	4.5/3.0
70.00 to 100.0	40	40/60	4	0.3/0.4	4.5/3.0

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]





PIN	CONNECTION
1	N.C.
7	Ground
8	Output
14	+ 5VDC

HOW TO ORDER

XO-53 / MODEL

B / FREQUENCY STABILITY
- AA = .0025% (25PPM)
- A = .005% (50PPM)
- B = .01% (100PPM)
- Standard

R / OTR
- Blank = 0°C to + 70°C
- R = - 40°C to + 85°C

40M / FREQUENCY/MHz