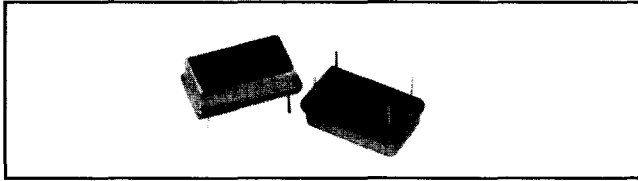




Clock Oscillators

1.0KHz to 999.9KHz



FEATURES

- Low frequency range.
- HCMOS circuit, HCMOS/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: 15pF or 10 LSTTL.

MECHANICAL SPECIFICATIONS

Marking Ink: Epoxy, solvent resistant.

Hermetically Sealed Package: Leak rate less than 2×10^{-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 (KHz) | INPUT CURRENT (mA) (Max.) | WAVEFORM SYMMETRY At 1.4Vdd | RISE AND FALL TIME (nS) (Max.) | "ZERO" LEVEL 10%Vdd (Typ. Max.) | "ONE" LEVEL 90%Vdd (Typ. Min.) |
| 1.0 to 999.9 | 10 | 49/51 | 10 | 0.1/0.5 | 5.0/4.5 |

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

| PIN | CONNECTION |
|-----|-------------|
| 1 | N.C. or E/D |
| 7 | Ground |
| 8 | Output |
| 14 | + 5VDC |

HOW TO ORDER

| | | | |
|-----------------------|---|---|------------------------------|
| <u>XO-56</u> MODEL | <u>B</u> FREQUENCY STABILITY | <u>R</u> OTR | <u>256K</u> FREQUENCY/KHz |
| | AA = .0025% (25PPM) A = .005% (50PPM) B = .01% (100PPM) Standard | Blank = 0°C to + 70°C R = - 40°C to + 85°C | |