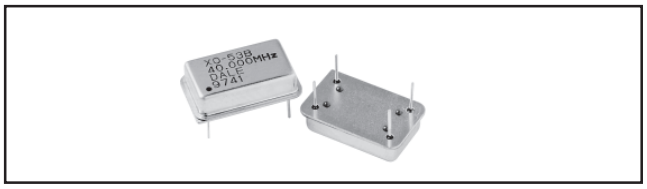
Clock Oscillators

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 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.

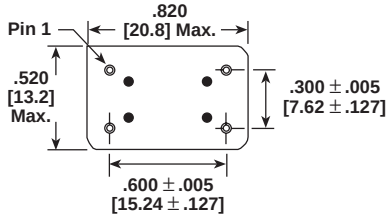
Vibration: .06 D.A., 10 - 55Hz, 20g, 55 - 200Hz.

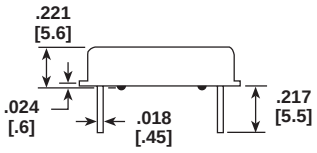
Humidity: 85% relative humidity at + 85°C, 240 hours.

STANDARD ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE (KHz)	INPUT CURRENT (mA) (Max.)	WAVEFORM SYMMETERY 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

XO-56 / 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

256K / FREQUENCY/KHz