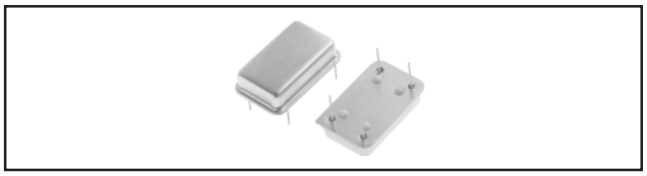
Model XO-43

Vishay Dale

Clock Oscillators

Hybrid Crystal 4.0MHz to 60.0MHz



FEATURES

- TTL compatible.
- Industrial temperature optional.
- Hermetically sealed package.

ELECTRICAL SPECIFICATIONS

Operating Temperature: 0°C to + 70°C (- 40 to 85 optional).
Frequency Stability: .01% Standard (.0025% + .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.

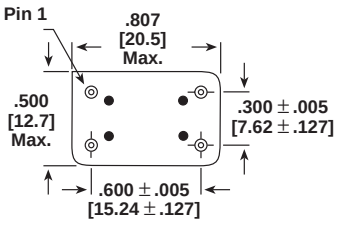
ENVIRONMENTAL SPECIFICATIONS

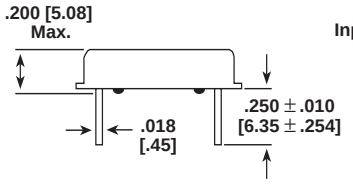
Temperature Cycle: - 55°C to + 85°C, 3 cycles.
Shock: 1000g, 0.35 millisecond, 1/2 sine wave, 3 shocks each plane.
Vibration: .06 D.A., 10 - 55Hz, 20g, 55 - 200Hz.

STANDARD ELECTRICAL SPECIFICATIONS

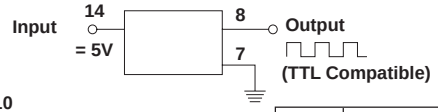
FREQUENCY RANGE (MHz)	INPUT CURRENT (mA) (Max.)	WAVEFORM SYMMETERY @ 1.4VDC	TTL OUTPUT RISE AND FALL TIME (nS) (Max.)	"ZERO" LEVEL SINKING 16mA (Typ. Max.)	"ONE" LEVEL SOURCING 0.4mA (Typ. Min.)
4.0 to 9.999	40	40/60	10	0.5/0.25	3.5/2.4
10.0 to 23.999	40	40/60	8	0.5/0.25	3.5/2.4
24.0 to 60.0	40	40/60	4	0.5/0.25	3.5/2.4

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]





Schematic



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

Pin 1 is identified by square corner. Design subject to change notice.

PART MARKING

- Model
- Frequency
- Pin identifier
- Vishay Dale

HOW TO ORDER

XO-43	B	R	40M
MODEL	FREQUENCY STABILITY	OTR	FREQUENCY/MHz

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

OTR: Blank = 0°C to 70°C; R = - 40°C to 85°C

NOTE: Contact factory for other models, frequencies, stabilities and temperature ranges.