

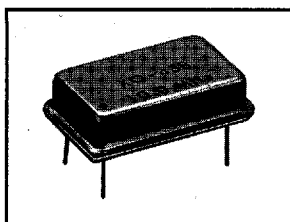
MODEL XO-43B Clock Oscillators

Hybrid Crystal, Resistance Welded Metal Package
Low Profile, 250 KHz to 60 MHz

A COMPANY OF

VISHAY

DALE®



FEATURES

- Able to withstand flow soldering
- Wide range of standard frequencies available from stock (listed below)
- Hermetically sealed package
- Low profile .225" [5.72] maximum seating height
- Metal Case - corrosion resistant and grounded for EMI shielding
- Glass standoffs for spacing from mounting surface

STANDARD ELECTRICAL SPECIFICATIONS					
FREQUENCY RANGE	INPUT CURRENT (mA)	WAVEFORM SYMMETRY AT 1.4 VDC	TTL OUTPUT RISE & FALL TIME (From Zero to One Level)	"ZERO" LEVEL SINKING 16 mA	"ONE" LEVEL SOURCING 0.4 mA
250 KHz to 3.999 MHz	65 max.	55/45	15 nS max.	0.4 volts max.	2.4 volts min.
4.0 MHz to 24.999 MHz	40 max.	60/40*	10 nS max.	0.4 volts max.	2.4 volts min.
25.0 MHz to 60.0 MHz	50 max.	60/40*	6 nS max.	0.4 volts max.	2.4 volts min.

* 55/45 Available

ELECTRICAL SPECIFICATIONS

Input Voltage: + 5 VDC \pm 0.5 V.

Frequency Range: 250 KHz to 60 MHz.

Operating Temperature Range: 0°C to 70°C.

TTL Compatible: Will drive 1-10 TTL Gates.

MECHANICAL SPECIFICATIONS

Hermetically Sealed Package: Leak rate less than 2×10^{-8} atmosphere cc/sec. of helium.

Marking Ink: Epoxy, solvent resistant.

Solvent Resistance: Isopropyl alcohol, Trichloroethane, Freon TMC.

Terminal Solderability: Per MIL-STD-202, Method 208C.

Package: Cold Rolled Steel (CRS), Nickel-Plated Base with Resistance Welded Stainless Steel Cover.

ENVIRONMENTAL SPECIFICATIONS

Temperature Cycle: - 55°C to + 85°C, 3 cycles.

Shock: 1000 G's 0.35 millisecond, 1/2 sine wave, 3 shocks each plane.

Vibration: .06 D.A., 10-55 Hz, 35 G, 55-2000 Hz.

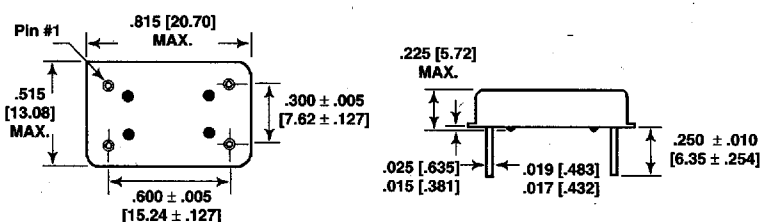
Humidity: 85% relative humidity at 85°C, 240 hours.

STOCKING FREQUENCIES (MHz)

"B" accuracy only

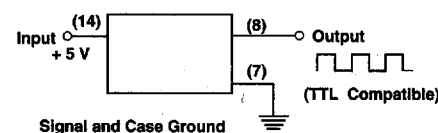
1.0	4.9152	10.0	19.6608	32.0
1.2288	5.0	12.0	20.0	40.0
2.0	5.0688	16.0	24.0	50.0
2.4576	6.0	16.384	25.0	
4.0	8.0	18.432	30.0	

DIMENSIONAL CONFIGURATIONS (Numbers in brackets indicate millimeters)



Pin #1 is identified by square corner. Design subject to change without notice.

Schematic



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

PARTS MARKING

- Model
- Frequency
- Pin identifier
- Dale

ORDERING

XO-43 MODEL	B FREQ. ACCURACY (All conditions)	- 59 SYMMETRY	10 FREQ./MHZ
	A = \pm .005% (\pm 50PPM) B = \pm .01% (\pm 100PPM)	BLANK = Std. Symmetry - 59 = 55/45 Symmetry	

Contact factory for other models, logic families, stabilities and temperature ranges.