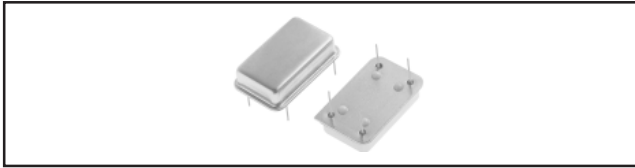




## Clock Oscillators

*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  $2 \times 10^{-8}$  atmosphere cc/sec. of helium.  
**Terminal Solderability:** A minimum of 95% coverage after solder dip.

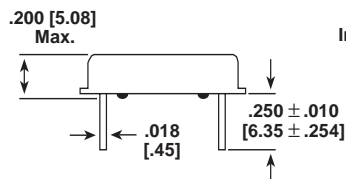
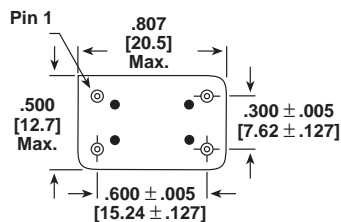
### ENVIRONMENTAL SPECIFICATIONS

**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.

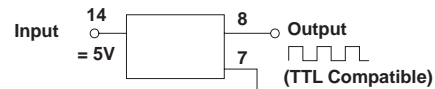
### STANDARD ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE (MHz)	INPUT CURRENT (mA) (Max.)	WAVEFORM SYMMETRY @ 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



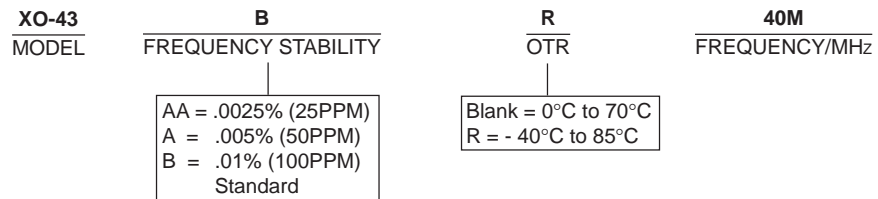
PIN	CONNECTION
1	N.C. or E/D
7	Ground
8	Output
14	+5VDC

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

### PART MARKING

- Model
- Frequency
- Pin identifier
- Vishay Dale

### HOW TO ORDER



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