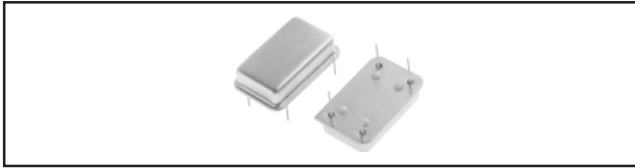




## Clock Oscillators

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.

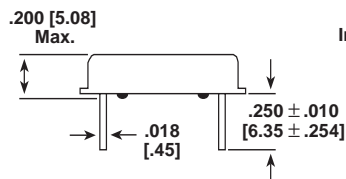
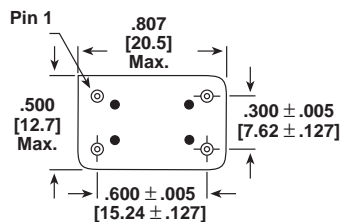
### ENVIRONMENTAL SPECIFICATIONS

**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.

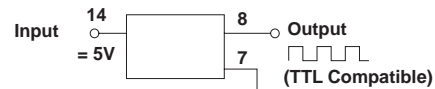
### STANDARD ELECTRICAL SPECIFICATIONS

| 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



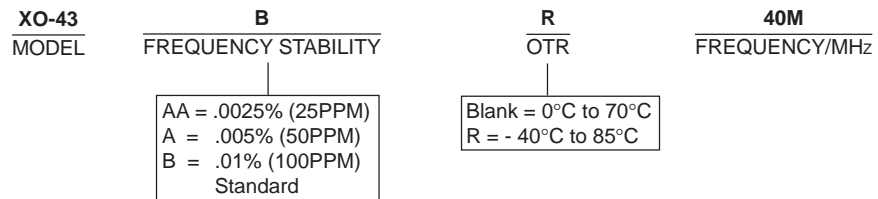
| PIN | CONNECTION  |
|-----|-------------|
| 1   | N.C. or E/D |
| 7   | Ground      |
| 8   | Output      |
| 14  | +5VDC       |

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.