

## Fixed Frequency Crystal Oscillator

- Industry standard pinout
- TTL and CMOS compatible output
- Tri-state output option
- Frequency up to 100 MHz
- Low power
- Hermetically sealed metal package

# PO300H

### Specifications:

**Frequency Range:** 1.0 MHz ~ 100.0 MHz

**Operating Temperature:**

|               |     |
|---------------|-----|
| 0°C ~ +50°C   | - A |
| -10°C ~ +60°C | - B |
| -20°C ~ +70°C | - C |
| -40°C ~ +85°C | - L |

**Storage Temperature:** -40°C ~ +85°C

**Frequency Stability:**

|           |          |
|-----------|----------|
| ± 100 ppm |          |
| ± 50 ppm  | Standard |
| ± 25 ppm  |          |

**Supply Voltage:**

|         |     |
|---------|-----|
| 3.3 VDC |     |
| 5.0 VDC | - P |

**Supply Current** 40 mA

### Output Level:

**Output High:** 2.4V min (TTL), 90%  $V_{DD}$  min (CMOS)  
**Output Low:** 0.4V max (TTL), 10%  $V_{DD}$  max (CMOS)

### Transition Times (1MHz ~ 25MHz)

**Rise & Fall Time 5V(3.3V):** 8(5) nS  
**Over 25MHz**  
**Rise & Fall Time 5V(3.3V):** 6(4) nS

**Symmetry or Duty Cycle:** 45/55%

**Start-Up Time:** 10 mS max

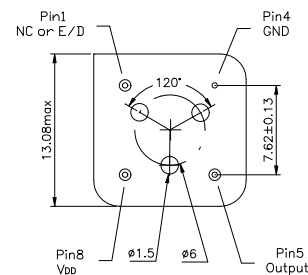
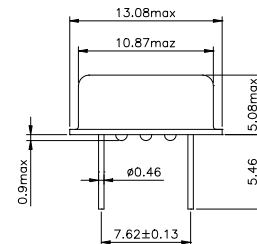
### Tri-State:

**Output Active:** 0.8 $V_{DD}$   
**Output in High-Impedance State:** 0.16 $V_{DD}$

### Note:

1. Other frequencies, stabilities, and operating temperature ranges available. Consult VTC Support for specific requirements.
2. Not all combinations of the above, stabilities, and temperature ranges are available. Consult VTC Support if your requirement is not standard.
3. All specifications subject to change without notice.

### Half-Size DIL-8



| Pin | Configurations |
|-----|----------------|
| 1   | NC or E/D      |
| 4   | Ground         |
| 5   | Output         |
| 8   | Supply         |

All dimensions are in mm

### Ordering Information

Product name + Operating Temperature + Stability(PPM) + Frequency + Other Specification Code.

i.e. PO300HC25-40.0MHz