



13.00L x 13.00W x 5.60H (mm)

PDI Model *008-Series* provides precision timing in a hermetically sealed Dip8 package, and is available in both standard and custom frequencies and configurations. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|------------------------------|---|--|------|-----------|------|---------|
| Frequency Nominal | Fo | | | 16.128000 | | MHz |
| Frequency Stability | | Inclusive of Tolerance @25°C, Operating Temperature, Supply Voltage, Load, 1st Year Aging, Shock and Vibration | -50 | | +50 | ppm |
| Operating Temperature | | | 0 | | +70 | °C |
| Storage Temperature | | | -55 | | +125 | °C |
| Duty Cycle | | @ 50% Vcc | 40 | 50 | 60 | % |
| Rise/Fall Times | TR/TF | From 10% to 90% @15pF CL | | | 10.0 | nS |
| Output | | TTL/CMOS | | | | |
| Supply Voltage | Vcc | | 4.50 | 5.00 | 5.50 | V |
| Supply Current | Icc | +25°C | | | 20 | mA |
| Load | CL | | | | 50.0 | pF |
| Start-up Time | Tstup | | | | 10.0 | mS |
| Low Level Output Voltage | Vol | | | | 10 | % Vcc |
| High Level Output Voltage | Voh | | 90 | | | % Vcc |
| Enable Tristate Function | Vih | Pin 1 Logic '1' or No Connect, Output Enabled | 2.2 | | | V |
| Disable Tristate Function | Vil | Pin 1 Logic '0', Output Disabled | | | 0.8 | V |
| Standby Current | | | | | 10 | µA |
| Perturbations | | | | | 3 | ppm/1°C |
| Aging | | 1st Year | -5.0 | | +5.0 | ppm |
| Moisture Sensitivity Level | J-STD-020 , MSL = 1 | | | | | |
| Environmental Specifications | | | | | | |
| Altitude | MIL-STD-883 , Method 1001 , Condition B | | | | | |
| Vibration | MIL-STD-883 , Method 2007 , Condition A | | | | | |
| Mechanical Shock | MIL-STD-202 , Method 213 , Condition J | | | | | |
| Humidity | MIL-STD-202 , Method 103 , Condition B | | | | | |

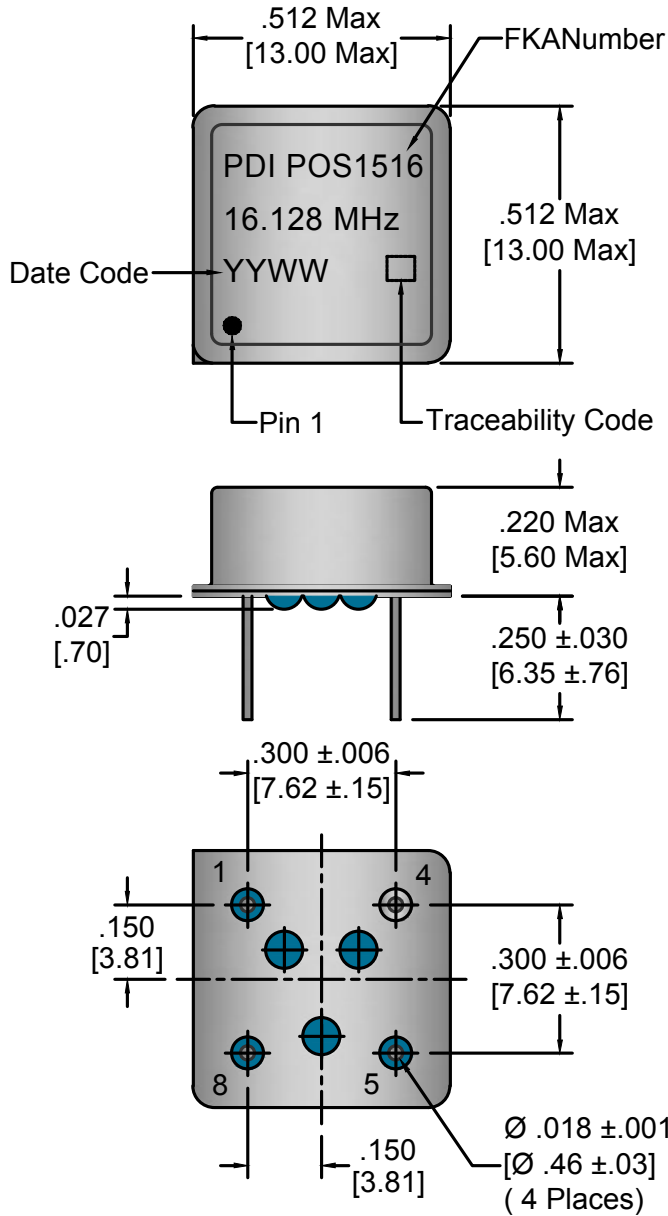
| Rev | Date | Page | Description | ECN | Originator | Date | Engineering | Date |
|-----|------|------|------------------|-----|---------------------------------|---------|-------------|-------------|
| | | | | | BA | 4-30-15 | Jl | 4-30-15 |
| | | | | | 8-Pin DIP Crystal Oscillator | | | POS1516-fka |
| | | | | | PART #: 008T16128XCCA5XX | | | DWN: BA |
| A | 4/15 | All | Original Release | N/A | DATE: 4-30-15 | | SCALE: NTS | ECN: NA |

O08-Series 13.00 x 13.00 x 5.60 (mm)

PACKAGE DIMENSIONS

Tolerance: ± 0.008 [.20mm] (Unless otherwise specified)

| PIN | CONNECTION |
|-----|----------------|
| 1 | Tri-State |
| 4 | Ground/Case |
| 5 | Output |
| 8 | Supply Voltage |



| | | | | |
|--------------------------|--------|--|-------------|--------|
| | | <p>NOTES: Other options are available, please consult factory. All product is supplied <i>RoHS</i> and <i>REACH</i> compliant. Product can be supplied on Tape and Reel, on reels of 1,000 units. Specifications subject to change without notice, last updated 4/1/13.</p> | | |
| PART #: O08T16128XCCA5XX | REV: A | SIZE: A | CAGE: 0S4G1 | 2 of 2 |