



GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

## ZY2000 OSCILLATOR

0.1 Hz – 60.0 MHz

Hybrid Uncompensated Crystal Oscillator

Optional Screening to MIL-PRF-38534

14 PIN DIP

TTL Output

### SPECIFICATIONS

|                                 |                                        |                                 |
|---------------------------------|----------------------------------------|---------------------------------|
| Frequency                       | 0.1 Hz to 60.0 MHz                     |                                 |
| Output                          | Square Wave 10 TTL Load                |                                 |
| Input Voltage                   | +5 Vdc $\pm$ 5%                        |                                 |
| Input Current                   | 65 mA Maximum                          |                                 |
| Operating Temperature/Stability | <b>Temperature Range</b> -55 to +125°C | <b>Tolerance</b> $\pm$ 50.0 ppm |

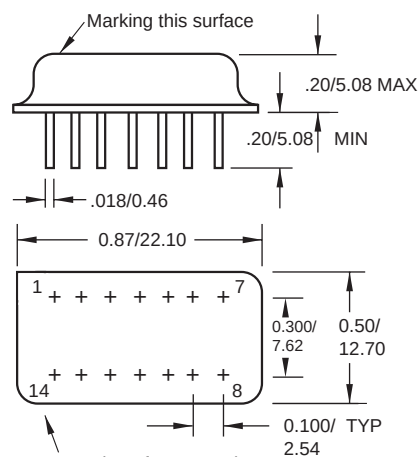
### OPTIONAL: MIL-PRF-38534 DEVICE SCREENING to CLASS H

| Test or Inspection    | MIL-STD-883                                        | Condition |
|-----------------------|----------------------------------------------------|-----------|
|                       | <b>Method</b>                                      |           |
| Pre-seal Burn-in      | 1030                                               |           |
| Internal Visual       | 2017                                               |           |
| Temperature Cycling   | 1010                                               | C         |
| Constant Acceleration | 2001                                               | 3000g's   |
| Burn-in               | 1015                                               |           |
| Final Electrical Test | In accordance with applicable device specification |           |
| Seal (fine and gross) | 1014                                               |           |
| External Visual       | 2009                                               |           |

Ordering Example: ZY2000 - 20.0 KHz  
(Model# - Frequency)

**PIN CONNECTIONS**  
7 – 0V, Case GND  
8 – Output  
14 – Supply Voltage  
All others are N/C

Dimensions: Inches (mm)



Tolerance: 2 PL  $\pm$  .02/0.51; 3 PL  $\pm$  .005/0.13

To inquire about available custom parameters please contact us at [sales@greenrayindustries.com](mailto:sales@greenrayindustries.com).