# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

## Features and Benefits

Differential output (HCSL)
Frequency range from 25MHz to 200MHz
2.5V /3.3V operation voltage
Excellent low phase noise and jitter
3-state function available
Automatic mounting and reflow soldering
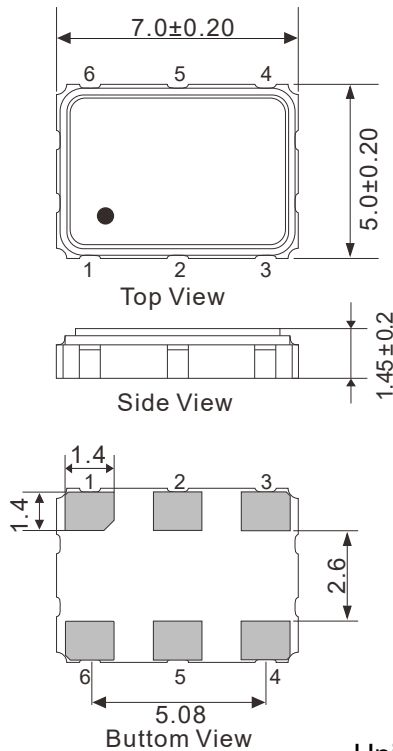RoHS Compliant /Pb Free

## Typical Applications

Ethernet, Server, PC, ADC,
Storage Area Network, SONET, etc

## Description

DXO7500AL_HCSL offers frequency range from 25MHz to 200MHz, high precision and high frequency stability, allowing for high density surface mounting, ideally suited designed for use in Portable Applications.
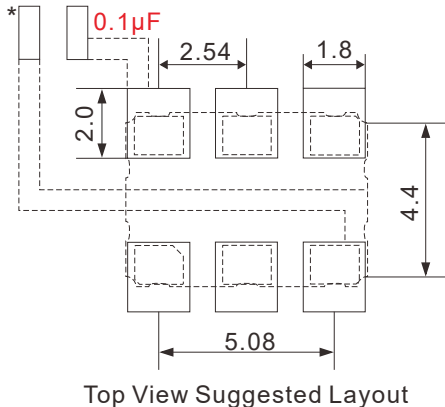
## Mechanical Drawing & Pin Connections

**Drawing No:** A 8 &$$$&&!%



Top View
Side View
Buttom View

| Pin | Connection |
|-----|------------|
| 1 | OE or NC |
| 2 | OE or NC |
| 3 | GND |
| 4 | Output |
| 5 | Comp. Output |
| 6 | Vcc |

\* External high frequency power supply decoupling required

0.1μF

Top View Suggested Layout

Unit in mm
1mm = 0.0394 inches

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## Specifications

| Oscillator Specification | Sym | Condition | Value | | | Unit | Note |
|---|---|---|---|---|---|---|---|
| | | | Min. | Typ. | Max. | | |
| Frequency | F | | 25 | | 200 | MHz | |
| Output | | | | HCSL | | | |
| Rise Time / Fall Time | Tr / Tf | | | | 0.5 | nsec | |
| Start Time | | | | | 10 | msec | |
| Output Load | | | | 50 | | Ohm | |
| Symmetry (Duty ratio) | | | 45 | | 55 | % | |
| **Power Supply** | | | | | | | |
| Supply Voltage | $V_{DD}$ | | | 3.3 | | V | 2.5V available |
| Supply Current | | | | | 30 | mA | |
| Voltage Vol (Max.) /Voh (Min.) | | | | 0V / 740mV | | mV | |
| **Frequency Stability** | | | | | | | |
| Frequency Stability | | Inclusive of frequency tolerance at 25°C, variation over temperature, supply voltage variation, aging and vibration | ±25ppm, ±50ppm, or specify | | | ppm | |
| Aging | | @+25°C 1st year | | | ±3 | ppm | |
| Phase Jitter (12KHz~20MHz) | | | | | 1 | pS | |
| Phase Noise (156.25MHz) at 1KHz | | | | -120 | | dBc/Hz | |
| **Environmental Conditions** | | | | | | | |
| Operating temperature range | | -40°C to +85°C | | | | | |
| Storage temperature range | | -55°C to +125°C | | | | | |