

## Electrical Specifications

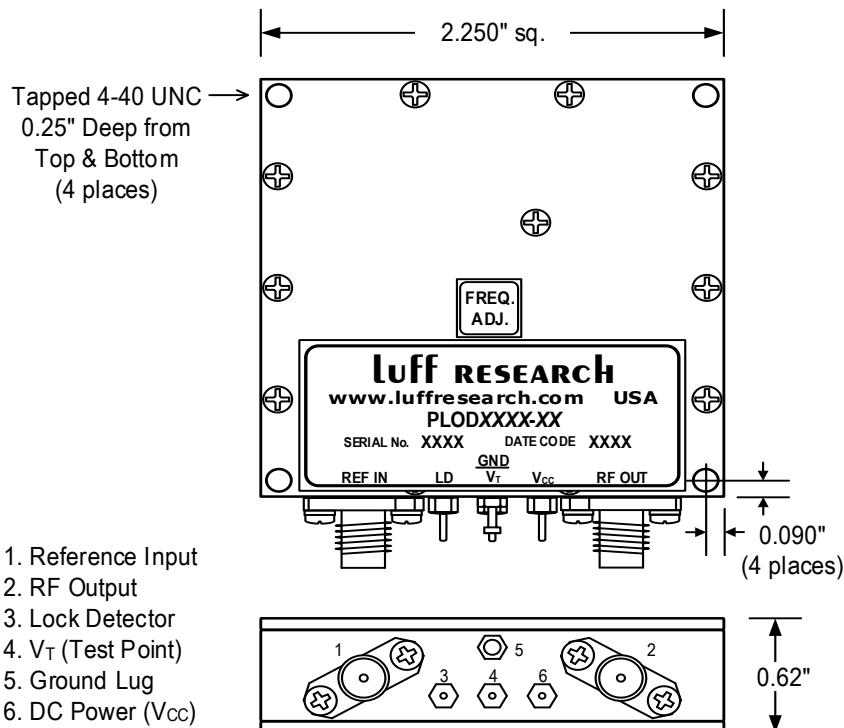
|                                  |                               |
|----------------------------------|-------------------------------|
| Frequency                        | 990 MHz                       |
| Frequency Stability and Accuracy |                               |
| External Ref.                    | Same as input                 |
| Internal Ref.                    | ± 0.5 PPM (Over Temp Range)   |
| Aging (after 2 months)           | ± 1.0 PPM max per year @ 25°C |
| Adjustability                    | 10 years                      |
| Phase noise (dBc/Hz)             | Typ.                          |
| L(100 Hz)                        | -95                           |
| L(1 kHz)                         | -100                          |
| L(10 kHz)                        | -105                          |
| L(100 kHz)                       | -120                          |
| L(1 MHz)                         | -145                          |
| L(10 MHz)                        | -160                          |
| Spurious (max)                   | -60 dBc                       |
| Harmonics (typ.)                 | -30 dBc                       |
| DC Power                         |                               |
| +5.5 VDC ± 0.5 VDC               | 250 mA                        |
| Power Out (min. @ 25°C)          | +13 dBm                       |
| Power Variation (typ.)           | 2 dB                          |
| Load VSWR (max.)                 | 2:1                           |
| Phase-Lock Indicator (LD)        | Open Collector (note 5)       |

## Reference Specifications

|                           |               |
|---------------------------|---------------|
| Input Reference Frequency | 10 MHz        |
| Input Level               | 0 dBm ± 3 dBm |

## Environment Specifications

|                                    |                       |
|------------------------------------|-----------------------|
| Operating Temp. Range (surface)    | -5°C to 65°C (note 4) |
| Storage Temp. Range                | -40°C to 85°C         |
| Relative Humidity (non-condensing) | 90%RH @ 40°C          |
| Shock                              | 30G / 10 ms           |
| Vibration                          | 4G / 20 Hz - 20 kHz   |



### Notes:

1. This unit is available with an internal TCXO (±0.5 PPM) upon quote.
2. "Reference Input" is not available on units with an internal TCXO.
3. Frequency Adjust feature is only applicable to units with an internal TCXO.
4. Proper heatsinking may be required to keep surface temp. lower than +65°C.
5. TTL Compatible Lock Detect available upon quote.

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Product Data Sheet

Digital Phase Locked Ceramic Resonating Oscillator

PLOD-0990-10

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