PIN CONNECTIONS

<table>
<thead>
<tr>
<th>PIN</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VCO INPUT or NOT CONNECTED</td>
</tr>
<tr>
<td>2</td>
<td>REFERENCE VOLTAGE or NOT CONNECTED</td>
</tr>
<tr>
<td>3</td>
<td>+VDC</td>
</tr>
<tr>
<td>4</td>
<td>R.F. OUTPUT</td>
</tr>
<tr>
<td>5</td>
<td>0 VOLTS &amp; CASE</td>
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</tbody>
</table>

Note 1. If the specification does not specify parameters for either PIN1 or PIN2 then that respective PIN is NOT internally CONNECTED.
1. OUTPUT
   1.1. Frequency
   1.2. Waveform
   1.3. Level
   1.4. Load
   1.5. Harmonics
   1.6. Spurious

   10.000 MHz
   Sine wave
   +8 ±2 dBm
   50 Ω
   < -30 dBc
   < -60 dBc

2. FREQUENCY STABILITY
   2.1. Ambient

   < ±2x10^-8 from 0°C to +70°C
   (referenced to +25°C)
   ±1x10^-9/day
   < ±1x10^-9 after 30 days
   ±3.5x10^-7
   ±5x10^-9/+5% change
   ±5x10^-7/+5% change
   < ±2x10^-9 in 5 minutes @ +25°C
   (referenced to 4 hours)

2.2. Aging
   a. At time of shipment
   b. After indefinite storage
      i. Daily
      ii. Yearly
      iii. 10 years

2.3. Voltage
2.4. Load
2.5. Warm-up

2.6. Phase noise
   a. @ 10 Hz
   b. @ 100 Hz
   c. @ 1 kHz

2.7. Acceleration sensitivity
   < -115 dBc
   < -135 dBc
   < -145 dBc
   < 0.039x10^-8/g per axis

3. ELECTRICAL FREQUENCY ADJUSTMENT (PIN = "VCO INPUT")
   3.1. Range

   > ±4x10^-7
   ±9x10^-7 (At time of shipment)
   (Referenced to nominal frequency)
   0 VDC to Vref (+8 VDC) or
   a 20 kΩ potentiometer connected
   between the "REFERENCE VOLTAGE" pin
   and "0 VOLTS & CASE" pin with wiper
   connected to "VCO INPUT" pin.
   Positive
   +4 VDC ±0.8 VDC
   (control voltage at which nominal
   frequency occurs at time of shipment)
   < ±10%

3.2. Control

3.3. Slope
3.4. Center

3.5. Linearity
3.6. Input impedance

> 50 kΩ
4. INPUT POWER (PIN = "+VDC")
  4.1. Voltage  .  +13.75 ±2.25 VDC
  4.2. Current  < 350 mA @ turn on
  4.3. Steady state  < 1.3 Watts @ +25°C

5. REFERENCE VOLTAGE (PIN = "REFERENCE VOLTAGE"), an output
  5.1. Voltage  +8 VDC ±5%
  5.2. Load  > 8 kΩ
  5.3. Temperature stability  < ±0.015 VDC
    (Over temperature range in 2.1.)

6. ENVIRONMENTAL
  6.1. Humidity
    MIL-STD-202F, Method 103B, Test
    Condition A (95% R.H. @ +40°C, non-condensing, 96 hours)
    -40°C to +85°C
  6.2. Storage temperature
    MIL-STD-202F Method 201A. (0.06" Total p-p, 10 to 55 Hz)
    MIL-STD-202F, Method 213B, Test
    Condition J.
    (30 g, 11 ms half-sine)

6.3. Vibration (non-operating)

6.4. Shock (non-operating)

7. MECHANICAL
  7.1. Applicable series  OCXO 131 series
  7.2. Model number  OCXO 131-55
  7.3. Outline drawing  125-535