This specification defines the operating characteristics of an ovenized crystal oscillator. Long term stability is assured through use of premium components.

<table>
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<th>REV.</th>
<th>DESCRIPTION OF REVISION</th>
<th>REQ. BY</th>
<th>DWN. BY</th>
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<td>TST</td>
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<tr>
<td>A</td>
<td>±5% in 2.5. was ±5</td>
<td>BTB</td>
<td>TST</td>
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<td>B</td>
<td>Added &lt; +18 dBm to 1.3., In 2.7 30 minutes was 15 minutes, Rewrote second section in paragraph 2.7.</td>
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<td>C</td>
<td>Was specification for OCXO 127-14</td>
<td>LMH</td>
<td>TST</td>
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</table>
1. OUTPUT
   1.1. Frequency 3.000 MHz
      (At time of shipment set to ±1x10^-8 @ +25°C)
   1.2. Waveform Sine wave
   1.3. Level > +13 dBm
      < +18 dBm (Cpk > 1.5)
   1.4. Load 50 Ω ±5%
   1.5. Harmonics < -20 dBc

2. FREQUENCY STABILITY
   2.1. Total < ±2.5x10^-7/year for Ambient, Aging, Voltage, and load.
   2.2. Ambient < ±5x10^-8 (Cpk > 1.5)
      from -30°C to +70°C (referenced to +25°C)
   2.3. Aging
      a. Daily < ±1x10^-9 at time of shipment
      b. Yearly < ±1x10^-7
   2.4. Voltage
      a. Oscillator < ±1x10^-9/±4% change
      b. Oven < ±3x10^-9/voltage range
   2.5. Load < ±1x10^-7 after 30 minutes
      < ±3.3x10^-8 after 24 hours
      (at +25°C, From 3 MHz following a maximum of 4 weeks off power)
   2.6. Phase noise < -140 dBc @ 60 kHz
   2.7. Retrace < ±1x10^-7 after 30 minutes
      < ±3.3x10^-8 after 24 hours
      (at +25°C, From 3 MHz following a maximum of 4 weeks off power)

3. MECHANICAL FREQUENCY ADJUSTMENT
   3.1. Range > ±1 PPM
   3.2. Resolution < ±1x10^-8
   3.3. Control Multi-turn trimmer

4. INPUT POWER
   4.1. Oscillator
      a. Voltage +15 VDC ±4%
      b. Current < 50 mA
   4.2. Oven
      a. Voltage +27 VDC +3 VDC, -6 VDC
      b. Current < 400 mA @ turn on
      c. Steady state < 2.8 Watts
5. ENVIRONMENTAL
   5.1. Humidity
       MIL-STD-202F, Method 103B, Test Condition A, except at +50°C
       (95% R.H. @ +50°C, non-condensing, 240 hours)
   5.2. Storage temperature
       -40°C to +85°C

6. MECHANICAL
   6.1. Applicable series
       OCXO 127 series
   6.2. Model number
       OCXO 127-10
   6.3. Outline drawing
       125-353