Description

Mi-Wave’s 957 Series Phase Locked Oscillators uses fixed frequency low noise synthesizer technology. These oscillators use an external reference from 1MHz to 600MHz and frequency outputs from 100MHz to 110GHz.

Both coaxial and waveguide versions available. Internal crystal references are available on request.

Open loop phase noise offset @ 16GHz
-80 dBc @ 10Hz
-100 dBc 100KHz
-130 dBc @ 1MHz
-150 dBc @ 10MHz

Features
- TTL Phase Lock Indicator Alarm
- Phase Lock Indicator L.E.D.
- Low Phase Noise
- Compact Design
- High Power Versions

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Input</td>
<td>1 to 600 MHz **</td>
</tr>
<tr>
<td>Frequency Output</td>
<td>100 MHz to 110 GHz</td>
</tr>
<tr>
<td>Output Power</td>
<td>+13 dBm typical*</td>
</tr>
<tr>
<td>Harmonics</td>
<td>-30 dBc typical</td>
</tr>
<tr>
<td>Spurious</td>
<td>-60 dBc typical</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-20º to +50º C</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>+8 to +15 VDC</td>
</tr>
<tr>
<td>Lock Time</td>
<td>3ms</td>
</tr>
</tbody>
</table>

* Depending upon frequency
Higher output power available

** External Reference must be powered on before or at the same time as PLO. Consult Mi-Wave for output frequency vs reference frequency requirements.

Ordering Information

957 / / / Specify Power Output in dBm

Specify Crystal Reference Options
E: External
I: Internal Oscillator

Specify RF Band Designator
(K,A,B,U,V,E,W,F) Waveguide Version
C = Coaxial Version (Specify Connector Type)