**FEATURES**

- Fixed-Frequencies to 18 GHz
- Ruggedized, Modular-Mount Package (2.5” x 1.1” x 0.4”)
- Removeable SMA Connectors for Surface-Mountability
- Optionally Hermetically-Sealed per MIL-STD-883
- High Shock and Vibration Tolerance

**SPECIFICATIONS**

**Frequency Range**: 1 to 18 GHz

**Bandwidth**: Fixed

**External Reference**: 5 to 200 MHz

**Internal Reference (Optional)**: ≤±2.5 ppm, Stability

**Power Output**: up to +18 dBm

**Harmonics**: < -30 dBc

**Spurs**: < -70 dBc

**Supply Options**: +5, +8, +12 VDC

**Current**: ≤ 350 mA

**Package Size**: 2.5” x 1.1” x 0.4”

(63.5 x 27.9 x 10.2)mm

**Phase Noise (dBc/Hz)**

<table>
<thead>
<tr>
<th>Frequency Offset</th>
<th>12 GHz</th>
<th>16 GHz</th>
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</thead>
<tbody>
<tr>
<td>1 KHz Offset</td>
<td>&lt; -70</td>
<td>&lt; -86</td>
</tr>
<tr>
<td>10 KHz Offset</td>
<td>&lt; -89</td>
<td>&lt; -88</td>
</tr>
<tr>
<td>100 KHz Offset</td>
<td>&lt; -115</td>
<td>&lt; -94</td>
</tr>
<tr>
<td>1 MHz Offset</td>
<td>&lt; -135</td>
<td>&lt; -120</td>
</tr>
</tbody>
</table>

**Temperature Ranges (Operating)**

- Standard: -30°C to +70°C
- Other Available Ranges: -40°C to +85°C

Note: All specifications are typical unless otherwise specified and subject to change without notice. Not all performance parameters are available in combination with certain specifications. E.G. Not all power output levels are available at all frequency ranges.

**PACKAGE OUTLINE**

Notes:
1. Includes removeable SMA connectors for drop-in, surface-mountability.
2. Alternate connectors available: GPO, GPPO, K
3. Demoboards and Reference Modules available.
4. All dimensions are in inches unless otherwise specified.
5. Diagrams and pictures shown are examples only.