**BECO PA**

**Frequency:** 100 MHz

**Output:**
- 0 dBm min into 50 Ω
- TBD dBm typical

**Harmonics:** -25 dBc min

**Spurious:** -60 dBc min

**Operating Temp Range:** -40°C to +65°C

**Temp Stability and Aging:**
- ± 5.0 ppm max for 17 years
- ± 5 x 10⁻⁷ typical for temp stab.

**Supply Voltage:** +12 Vdc ± 5 %

**Current:** 350 mA max at turn-on

**Power consumption:**
- 4.2 Watts max at turn-on
- 1.2 Watts typical stabilized at +25°C

**Voltage Control:** ± 3 x 10⁻⁷ typical for 0 to +5 volts  Negative Si

**Phase Noise:**
- -113 dBc @ 100 Hz
- -135 dBc @ 1 kHz
- -150 dBc @ 10 kHz
- -154 dBc @ 100 kHz

**Case Size:** Per attached outline drawing

<table>
<thead>
<tr>
<th>Date</th>
<th>Rev.</th>
<th>Revised per</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Mechanical Eng:**
- **Design Eng.**
- **Release:**
- **Specification No:**
- **Preliminary**
Note: The green dot is probably due to increased input voltage.

<table>
<thead>
<tr>
<th>Hz</th>
<th>SWP Z</th>
<th>100.000 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>CENTER 100.000 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SPAN 100.000 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REW 1 OKHz</td>
</tr>
<tr>
<td></td>
<td>50 V</td>
<td>VBM 1 OKHz</td>
</tr>
<tr>
<td></td>
<td>10 V</td>
<td>* OKHz</td>
</tr>
</tbody>
</table>

Waveform:

- 5 mA
- 2.5 V

Oscilloscope #9

Blue = DC in
Black = Ground
Orange = Trace (unused for this plot)
Here: Figures given is probably due to reduced input voltage.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>100.000 MHz</th>
<th>100.033 MHz</th>
<th>100.067 MHz</th>
<th>102.000 MHz</th>
<th>104.000 MHz</th>
<th>106.000 MHz</th>
<th>108.000 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span</td>
<td>2.000 MHz</td>
<td>2.000 MHz</td>
<td>2.000 MHz</td>
<td>2.000 MHz</td>
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</tr>
<tr>
<td>Center</td>
<td>100.000 MHz</td>
<td>100.000 MHz</td>
<td>100.000 MHz</td>
<td>100.000 MHz</td>
<td>100.000 MHz</td>
<td>100.000 MHz</td>
<td>100.000 MHz</td>
</tr>
</tbody>
</table>

Note: All figures are given as a rough estimate due to reduced input voltage.