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Features

- Center Frequency 35 GHz
- Tuning Range 3 GHz
- Phase Noise -95 dBc/Hz
- Ka Band
- WR-28 UG-599/U Flange

Applications

- Police speed radar guns
- Doppler sensors
- Transceivers

Description

The PEWGN1000 is a Waveguide Gunn Oscillator with a Center Frequency of 35 GHz and a Tuning Range of +/- 3 GHz. The unit operates in the Ka Band. The unit has a Phase Noise @ 100kHz Offset of -95 dBc/Hz typ and Frequency Stability of -0.4 MHz/°C max. The Gunn Oscillator has an Output Power of 10 dBm min and Power Stability of -0.04 dB/°C max. The Waveguide Gunn Oscillator uses a Bias Voltage of 5.5 Volts and a Bias Current of 250 mA and has a Waveguide Size of WR-28 and a Flange of UG-599/U.

Electrical Specifications (TA = +25°C, Bias Voltage= 5.5V, Bias Current= 250mA)

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
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<tbody>
<tr>
<td>Center Frequency</td>
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<td></td>
<td></td>
<td>GHz</td>
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<tr>
<td>Tuning Range</td>
<td>±3</td>
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<td>GHz</td>
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<tr>
<td>Output Power</td>
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<td>dBm</td>
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<tr>
<td>Power Stability</td>
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<td>dB/°C</td>
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<tr>
<td>Phase Noise @ 100kHz Offset</td>
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<td>dBc/Hz</td>
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<tr>
<td>Bias Voltage</td>
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<td>V</td>
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<tr>
<td>Bias Current</td>
<td>250</td>
<td></td>
<td></td>
<td>mA</td>
</tr>
</tbody>
</table>

Mechanical Specifications

Size

- Length: 0.85 in [21.59 mm]
- Width: 0.75 in [19.05 mm]
- Height: 0.6 in [15.24 mm]
- Weight: 0.072 lbs [32.66 g]

Configuration

- Waveguide Size: WR-28
- Flange: UG-599/U
- Bias Connector: Pin

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Waveguide Gunn Oscillator, Center Frequency 35 GHz, Tuning Range 3 GHz, Phase Noise -95 dBc/Hz, Ka Band, WR-28 With UG-599/U PEWGN1000
Waveguide Gunn Oscillator, Center Frequency 35 GHz, Tuning Range 3 GHz, Phase Noise -95 dBC/Hz, Ka Band, WR-28 With UG-599/U

Environmental Specifications
- Temperature
  - Operating Range: -40 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
- Notes:
  - Waveguide Gunn Oscillator, Center Frequency 35 GHz, Tuning Range 3 GHz, Phase Noise -95 dBC/Hz, Ka Band, WR-28 With UG-599/U from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

  - Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Waveguide Gunn Oscillator, Center Frequency 35 GHz, Tuning Range 3 GHz, Phase Noise -95 dBC/Hz, Ka Band, WR-28 With UG-599/U PEWGN1000


The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.
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Waveguide Gunn Oscillator, Center Frequency 35 GHz, Tuning Range 3 GHz, Phase Noise -95 dBC/Hz, Ka Band, WR-28 With UG-599/U