

Waveguide Gunn Oscillator, Center Frequency 24.125 GHz, Tuning Range 1,000 MHz, Phase Noise -98 dBc/Hz, K Band, WR-42 With UG-595/U



Waveguide Gunn Oscillators Technical Data Sheet

PEWGN1001

Features

- Center Frequency 24.125 GHz
- Tuning Range 1.0 GHz
- Phase Noise -95 dBc/Hz

- K Band
- WR-42 UG-595/U Flange

Applications

- · Police speed radar guns
- Doppler sensors

Transceivers

Description

The PEWGN1001 is a Waveguide Gunn Oscillator with a Center Frequency of 24.125 GHz and a Tuning Range of +/- 1.0 GHz. The unit operates in the K 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 5.0 Volts and a Bias Current of 200 mA and has a Waveguide Size of WR-42 and a Flange of UG-595/U.

Electrical Specifications (TA = +25°C, Bias Voltage= 5V, Bias Current= 200mA)

Description	Minimum	Typical	Maximum	Units
Center Frequency		24.125		GHz
Tuning Range	±1000			MHz
Output Power	10			dBm
Frequency Stability			-0.2	MHz/deg C
Power Stability			-0.03	dB/deg C
Phase Noise @ 100kHz Offset		-98		dBc/Hz
Bias Voltage		5		V
Bias Current		200		mA

Mechanical Specifications

Size

 Length
 0.92 in [23.37 mm]

 Width
 1 in [25.4 mm]

 Height
 0.8 in [20.32 mm]

 Weight
 0.105 lbs [47.63 g]

Configuration

Waveguide Size WR-42
Flange UG-595/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 24.125 GHz, Tuning Range 1,000 MHz, Phase Noise -98 dBc/Hz, K Band, WR-42 With UG-595/U PEWGN1001

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



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Environmental Specifications
Temperature

Operating Range

-40 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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URL: https://www.pasternack.com/waveguide-gunn-oscillator-24.125-ghz-tuning-range-1000-mhz-pewgn1001-p.aspx

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PEWGN1001 CAD Drawing

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