



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

FMWGN1001 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	Min	Тур	Max	ı	Units	
Center Frequency		24.125			GHz	
Tuning Range	±1000				MHz	
Output Power	10				dBm	
Frequency Stability			-0.2	MH	lz/deg	C
Power Stability			-0.03	dE	3/deg	C
Phase Noise @100kHz Offs	set	-98		dBc/Hz		7
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
 0.1065 lbs [48.31 g]

Configuration

Waveguide Size WR-42
Flange UG-595/U
Bias Connector Pin

Environmental Specifications

Temperature

Operating Range -40 to 85 deg C **Environment**

ESD Sensitivity ESD Sensitive Material, Transport mate-

rial in Approved ESD bags. Handle in

approved ESD Workstation.



Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Fairview Scrownve

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

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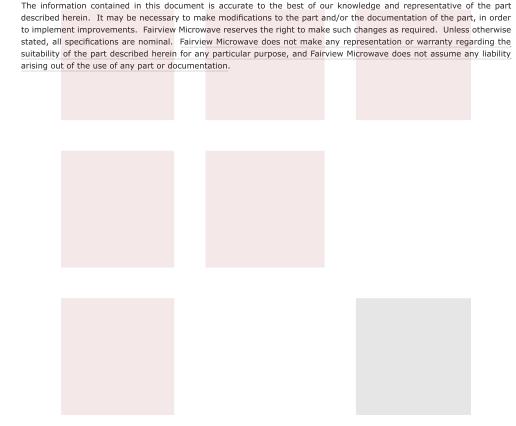




WR-42 Waveguide Gunn Oscillator at a 24.125 GHz Center Frequency With 1,000 MHz Tuning Range And -98 dBc/Hz Phase Noise, Band, UG-595/U from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

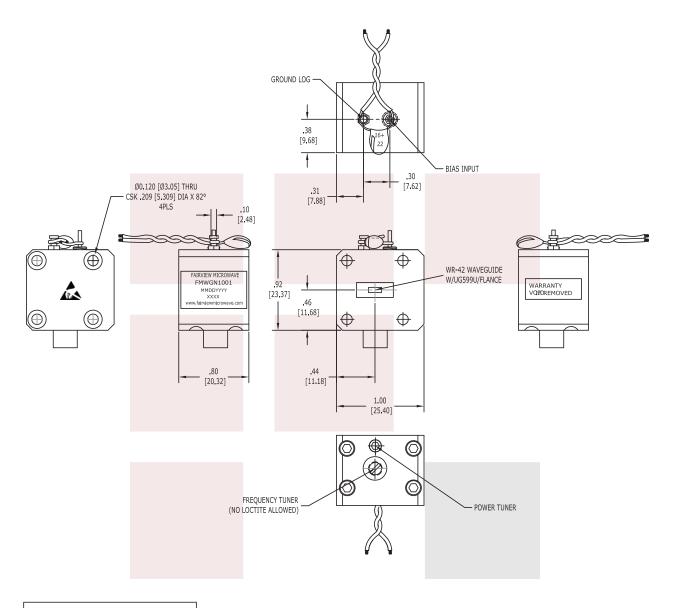
For additional information on this product, please click the following link: WR-42 Waveguide Gunn Oscillator at a 24.125 GHz Center Frequency With 1,000 MHz Tuning Range And -98 dBc/Hz Phase Noise, Band, UG-595/U FMWGN1001

URL: https://www.fairviewmicrowave.com/wr42-waveguide-gunn-oscillator-24.125-ghz-center-frequency-band-ug595-fmwgn1001-p.aspx









UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN: inches TOLERANCES ARE: [mm] $.XX \pm .01 \ [\pm .25] \\ .XXX \pm .001 \ [\pm .025]$

 $\ensuremath{^{*}}$ THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE $\ensuremath{^{\#1}}$ ON TITLE BLOCK.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
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	CAD FILE 110615	SHEET	SCALE	E N/A	SIZE A	2233	