

WR-28 Waveguide Gunn Oscillator at a 35 GHz Center Frequency With 3 GHz Tuning Range And -95 dBc/Hz Phase Noise, Band, UG-599/U

FMWGN1000 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)

Description	Min	Typ	Max	Units
Center Frequency		35		GHz
Tuning Range	±3			GHz
Output Power	10			dBm
Frequency Stability			-0.4	MHz/deg C
Power Stability			-0.04	dB/deg C
Phase Noise @100kHz Offset		-95		dBc/Hz
Bias Voltage		5.5		V
Bias Current		250		mA

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	0.071 lbs [32.21 g]
Configuration	
Waveguide Size	WR-28
Flange	UG-599/U
Bias Connector	Pin

Environmental Specifications

Temperature	
Operating Range	-40 to 85 deg C
Environment	
ESD Sensitivity	ESD Sensitive Material, Transport material in Approved ESD bags. Handle in approved ESD Workstation.



Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



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

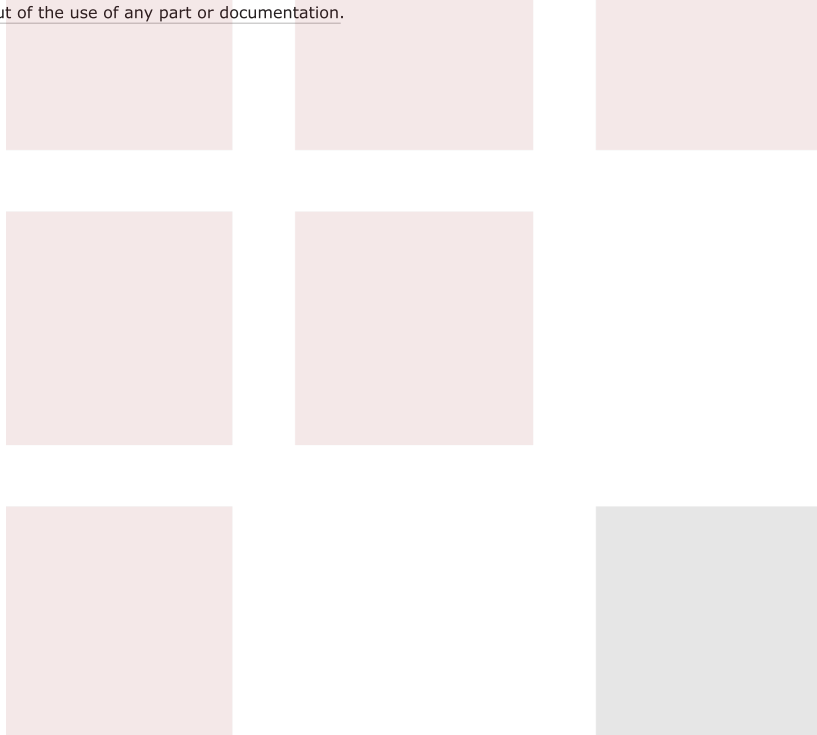
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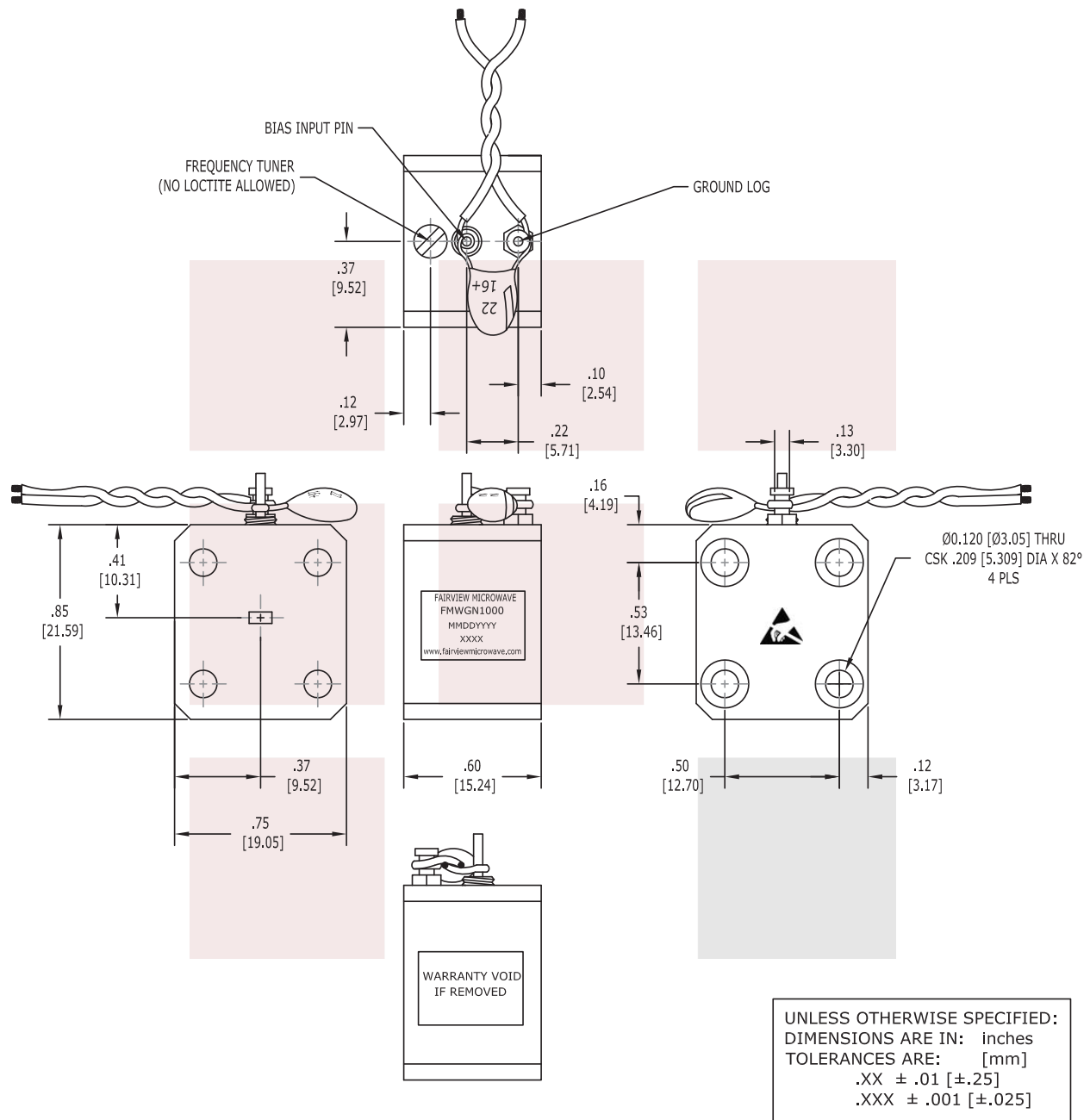
WR-28 Waveguide Gunn Oscillator at a 35 GHz Center Frequency With 3 GHz Tuning Range And -95 dBc/Hz Phase Noise, Band, UG-599/U from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-28 Waveguide Gunn Oscillator at a 35 GHz Center Frequency With 3 GHz Tuning Range And -95 dBc/Hz Phase Noise, Band, UG-599/U FMWGN1000](#)

URL: <https://www.fairviewmicrowave.com/wr28-waveguide-gunn-oscillator-35-ghz-center-frequency-band-ug599-fmw-gn1000-p.aspx>

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TITLE WR-28 Waveguide Gunn Oscillator at a 35 GHz Center Frequency With 3 GHz Tuning Range And -95 dBc/Hz Phase Noise, Band, UG-599/U					DWG NO FMWGN1000		CAGE CODE 3FKR5		
CAD FILE	110615	SHEET		SCALE	N/A	SIZE	A	2233	