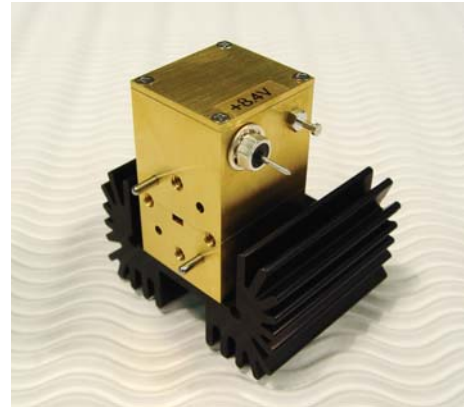


60-90 GHz Millimeter-Wave Gunn Oscillator, Model GE-XXX

Description:

Spacek Labs millimeter-wave Gunn oscillators use high Q resonator circuits to produce clean and stable output signals from 60 to 90 GHz.

The bias input contains an integral low frequency suppression filter and over voltage protection circuit. These oscillators can be used as a laboratory source, a multiplier driver, local oscillator or whenever a reliable source for the generation of millimeter wave signals is required. The varactor tuning voltage is from the Gunn bias voltage to -20 volts (ex. +5v to -20v), or from Gunn bias voltage to +30v (ex. +5v to +30v).



Features:

- High Reliability and Performance
- Narrow to Broadband Monotonic Tuning
- Combined Mechanical and Varactor Tuning
- High RF Output Power
- Integral Heatsink
- Micrometer Tuning Available

Electrical Specifications:

Description	Min.	Typ.	Max.
Center Frequency (F_C)	60 GHz	-	90 GHz
Power Output (mW)	-	-	50 mW
Tuning Bandwidth (% F_C)	-	-	5%
Frequency Stability (MHz/ $^{\circ}$ C)	-	6 MHz	-
Power Stability (dB/ $^{\circ}$ C)	-	-	-0.04 dB
Bias Voltage (volts)	-	4 V	-
Bias Current (amps)	-	0.7 A	1.3 A

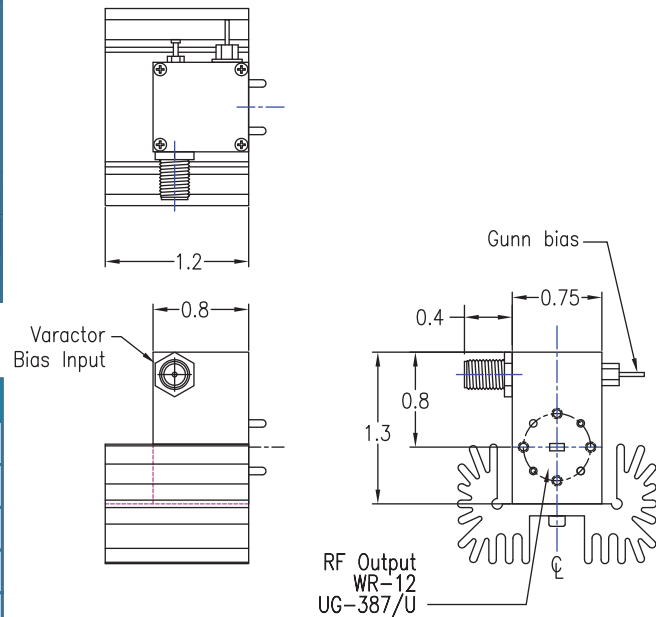
Mechanical Specifications:

Description	Specification
Connectors	UG-387/U
Dimensions	See Outline
Material	Brass
Finish	Gold Plate
Weight	4.3 oz

How to order Gunn Oscillators:

Please specify your request by giving the following data:

1. Center Frequency
2. Tuning Bandwidth
3. Mechanical, Varactor, or Fixed tuned
4. Power Output
5. Waveguide Size



OUTLINE (NOT TO SCALE)

E-BAND GUNN OSCILLATOR