

Ka-Band Volume Production Oscillator

SOL-33306315-28-G1 is a volume-production ready, Ka Band Gunn oscillator that utilizes a high performance GaAs Gunn diode and high Q cavity to achieve excellent phase noise and power stability. The oscillator is designed for fixed frequency applications; however, the frequency can be adjusted by ±3 GHz using the self-locking set screw provided.



Electrical Specifications:

Minimo	Turning	Massinassina
Minimum	Турісаі	Maximum
	33 GHz	
+12 dBm	+15 dBm	
±2,000 MHz	±3,000 MHz	
	-20 dBc	
	-95 dBc/Hz	
		-0.3 MHz/°C
		-0.03 dB/°C
	+5.5 V _{DC}	+6 V _{DC}
	300 mA	
	+25°C	
-40°C		+85°C
	±2,000 MHz	33 GHz +12 dBm +15 dBm ±2,000 MHz ±3,000 MHz -20 dBc -95 dBc/Hz +5.5 V _{DC} 300 mA +25°C

Mechanical Specifications:

Item	Specification	
RF Ports	WR-28 Waveguide with UG-599/U Flange	
Cavity Material	Aluminum	
Finish	Chem Film	
Weight	0.6 Oz	
Outline	OL-A1	

ECCN

EAR99

FEATURES

- Low Cost and Production Ready
- · Mechanical Tuning Ability
- Low AM/FM Noise and Harmonics
- High Frequency and Power Stability

APPLICATIONS

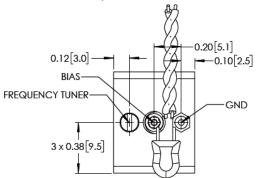
- Traffic Control Systems
- Communication Systems
- Radar System

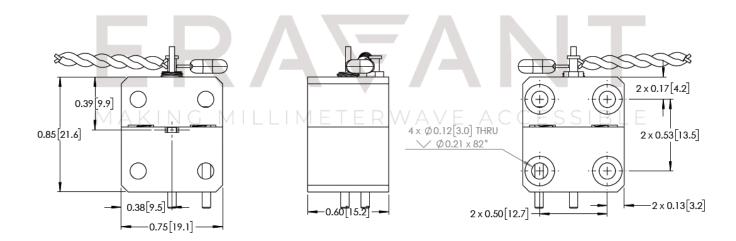
SUPPLEMENTAL DETAILS





Mechanical Outline: Unless otherwise specified, all dimensions are in inches [millimeters])





NOTE:

• Eravant reserves the right to change the information presented without notice.

CAUTION:

- Reversing polarity bias will destroy the device
- Exceeding absolute maximum rating shown will damage the device
- The device is static sensitive. Always follow ESD rules when working with the device
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.
- The case temperature of the device shall never exceed +85 °C. Use an additional heatsink or fan if necessary.

MAKING MILLIMETERWAVE ACCESSIBLE