

GVS-10-80-B1-14.8

W-Band Varactor Tuned Gunn Oscillator, 80.0 GHz

Description:

Model GVS-10-80-B1-14.8 is a W-Band, varactor tuned Gunn oscillator that utilizes a high performance GaAs Gunn diode and proprietary cavity design to deliver 14.8 dBm typical power with low AM/FM noise and harmonic emissions. The oscillator has a center frequency of 80.0 GHz and a electronic tuning range of ± 0.4 GHz. Compared to its multiplier-based counterparts, the Gunn oscillator is a lower cost alternative and a cleaner source.

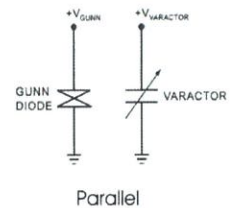


Features:

- Low AM/FM Noise and Harmonics
- Electronic Tuning
- Robust circuit

Applications:

- Test Sources
- Signal Generation
- Lab Test Setups



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Center Frequency		80.0 GHz	
Electronic Tuning Range	± 0.25 GHz	± 0.4 GHz	± 0.5 GHz
Output Power		+ 14.8 dBm	
Bias Voltage		+4.8 V _{DC}	+5.1 V _{DC}
Bias Current		1.0 A	
Specification Temperature		+30 °C	
Varactor tuner voltage	+0.5 v		+16v
Case Temperature	+10 °C		+50 °C

Mechanical Specifications:

Item	Specification
RF Port	WR-10 Waveguide with UG-387/U-M Flange
Bias Port	Gunn is SMA (F) , Varactor is MCX
Case Material	Aluminum
Finish	Natural
Weight	90 g
Size	25 (W) X 25 (L) x 31.5 (H) mm
Outline	G-1