

GIV-90-9.5-26.0

X-Band Varactor Tuned Gunn Oscillator, 9.5 GHz

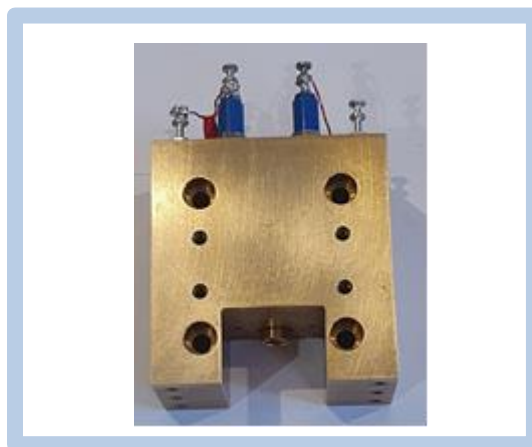
Description:

Model GIV-90-9.2-23.6 is an X-Band, varactor tuned Gunn oscillator that utilizes a high performance GaAs Gunn diode and proprietary cavity design to deliver **26.0 dBm** typical power with low AM/FM noise and harmonic emissions. The oscillator has a center frequency of **9.5 GHz** and **electronic tuning range of ± 10 MHz**

Coarse tuning ± 0.25 GHz

Micrometer option available

Compared to its multiplier-based counterparts, the Gunn oscillator is a lower cost alternative and a cleaner source.

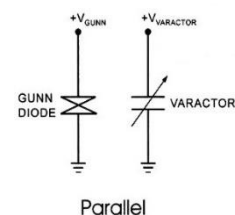


Features:

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

Applications:

- Test Sources
- Signal Generation
- Lab Test Setups



Electrical Specifications:

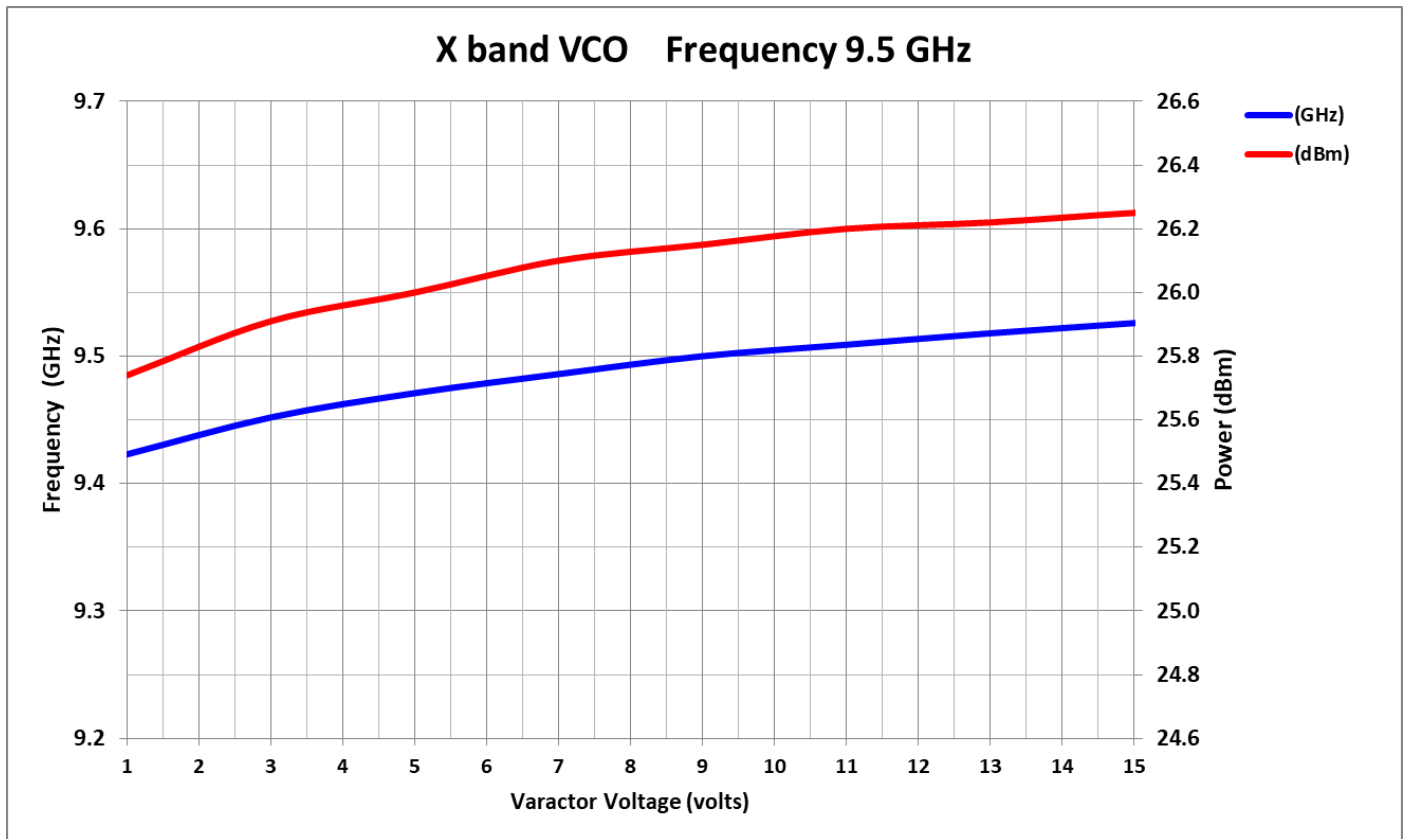
Parameter	Minimum	Typical	Maximum
Center Frequency		9.5 GHz	
Electronic Tuning Range	± 5.0 MHz	± 10 MHz	
Output Power		+ 26.0 dBm	
Bias Voltage		+12 V _{DC}	+13.0 V _{DC}
Bias Current		1.2 A	
Specification Temperature		+35 °C	
Varactor tuner voltage	+1.0 v		+17v
Case Temperature	+20 °C		+60 °C

Mechanical Specifications:

Item	Specification
RF Port	WR-90 Waveguide with UBR 100 Flange
Bias Port	Gunn & Varactor is Insulated Solder terminal
Case Material	Brass
Finish	Natural
Weight	560 g
Size	52 (W) X 30 (L) x 55 (H) mm
Outline	

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Note:

- All data presented is collected from a sample lot. It is for illustration only. Actual data varies unit to unit.
- The data given above was tested under case temperature **+35 ° C**.
- Set varactor voltage to +11v so ~ **9.5 GHz** when turning on the oscillator to ensure correct mode operation.
- Reserves the right to change the information presented without notice.

Caution:

- Reversing polarity will destroy the device.
- Bias voltage should not exceed **+13.0 Volts**.
- The case temperature of the device should not exceed **+60 C**. Use an additional heatsink or fan if necessary.
- When handling coax connectors, proper torque, 8.0 ± 0.4 inch-pounds (0.90 ± 0.02 Nm), should be applied.

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Mechanical Outline: (Unless otherwise specified, all dimensions are in millimeters)