

**WR 10 GW-10 Mechanically Tuned Gunn oscillator – Dual micrometer**

The unit utilises a GaAs Gunn device in a waveguide cavity.

Two independent micrometers :-

The frequency micrometer allows adjustment of frequency; the power micrometer allows optimisation of output power

A small amount of bias voltage will provide electronic frequency tuning.

The module provides a convenient way of generating an RF signal using a solid state device  
A clean and stable DC power supply will enhance performance and spectral purity

**Applications:-**

- Educational
- Communications
- Research
- Imaging/sensors

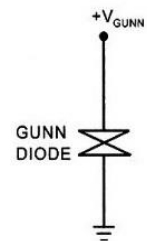


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 100 – 110 GHz
	(mW)	(dBm)		Bandwidth (GHz)
105.0	10	10.0	~ 4.1	± 5.0
105.0	15	11.8	~ 4.1	± 5.0
105.0	20	20.0	~ 4.1	± 5.0

**Alternative centre frequency available**

Specifications at + 32°C case temperature

DC input : SMA female  
RF output : UG-387/UM flange compatible



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass

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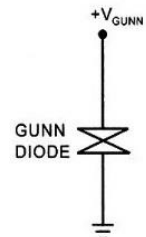


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 75 – 100 GHz
	(mW)	(dBm)		Bandwidth (GHz)
95.0	10	10.0	~ 4.5	± 5.0
95.0	15	11.8	~ 4.5	± 5.0
95.0	20	13.0	~ 4.5	± 5.0
95.0	30	14.8	~ 4.5	± 5.0
95.0	40	15.0	~ 4.5	± 5.0

**Alternative centre frequency available & bandwidth**

Specifications at + 32°C case temperature

**DC input : SMA female**  
**RF output : UG-387/UM flange compatible**



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass.

**WR 12 GW-12 Mechanically Tuned Gunn oscillator – Dual micrometer**

The unit utilises a GaAs Gunn device in a waveguide cavity.

Two independent micrometers :-

The frequency micrometer allows adjustment of frequency; the power micrometer allows optimisation of output power

A small amount of bias voltage will provide electronic frequency tuning.

The module provides a convenient way of generating an RF signal using a solid state device  
A clean and stable DC power supply will enhance performance and spectral purity

**Applications:-**

- Educational
- Communications
- Research
- Imaging/sensors

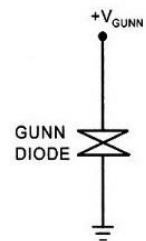


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 60 – 90 GHz
	(mW)	(dBm)		Bandwidth (GHz)
80.0	10	10.0	~ 5.1	± 4.0
80.0	20	13.0	~ 5.1	± 4.0
80.0	30	14.8	~ 5.1	± 4.0
80.0	40	16.0	~ 5.1	± 4.0
80.0	50	17.0	~ 5.1	± 4.0
80.0	60	18.0	~ 5.1	± 4.0

**Alternative centre frequency available & bandwidth**

Specifications at + 32°C case temperature

- DC input : SMA female
- RF output : UG-387/U flange compatible



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass.

**WR 12 GW-12 Mechanically Tuned Gunn oscillator – Dual micrometer**

The unit utilises a GaAs Gunn device in a waveguide cavity.

Two independent micrometers :-

The frequency micrometer allows adjustment of frequency; the power micrometer allows optimisation of output power

A small amount of bias voltage will provide electronic frequency tuning.

The module provides a convenient way of generating an RF signal using a solid state device  
A clean and stable DC power supply will enhance performance and spectral purity

**Applications:-**

- Educational
- Communications
- Research
- Imaging/sensors

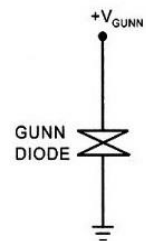


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 60 – 90 GHz
	(mW)	(dBm)		Bandwidth (GHz)
75.0	10	10.0	~ 5.1	± 4.0
75.0	20	13.0	~ 5.1	± 4.0
75.0	30	14.8	~ 5.1	± 4.0
75.0	40	16.0	~ 5.1	± 4.0
75.0	50	17.0	~ 5.1	± 4.0
75.0	60	18.0	~ 5.1	± 4.0

**Alternative centre frequency available & bandwidth**

Specifications at + 32°C case temperature

- DC input : SMA female
- RF output : UG-387/U flange compatible



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass.

**WR 12 GW-12 Mechanically Tuned Gunn oscillator – Dual micrometer**

The unit utilises a GaAs Gunn device in a waveguide cavity.

Two independent micrometers :-

The frequency micrometer allows adjustment of frequency; the power micrometer allows optimisation of output power

A small amount of bias voltage will provide electronic frequency tuning.

The module provides a convenient way of generating an RF signal using a solid state device  
A clean and stable DC power supply will enhance performance and spectral purity

**Applications:-**

- Educational
- Communications
- Research
- Imaging/sensors

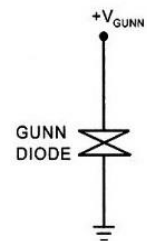


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 50 – 75 GHz
	(mW)	(dBm)		Bandwidth (GHz)
65.0	10	10.0	~ 5.7	± 4.0
65.0	20	13.0	~ 5.7	± 4.0
65.0	30	14.8	~ 5.7	± 4.0
65.0	40	16.0	~ 5.7	± 4.0
65.0	50	17.0	~ 5.7	± 4.0
65.0	60	18.0	~ 5.7	± 4.0

**Alternative centre frequency available & bandwidth**

Specifications at + 32°C case temperature

- DC input : SMA female
- RF output : UG-385/U flange compatible



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass.

**WR 15 GW-15 Mechanically Tuned Gunn oscillator – Dual micrometer**

The unit utilises a GaAs Gunn device in a waveguide cavity.

Two independent micrometers :-

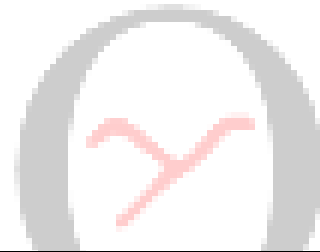
The frequency micrometer allows adjustment of frequency; the power micrometer allows optimisation of output power

A small amount of bias voltage will provide electronic frequency tuning.

The module provides a convenient way of generating an RF signal using a solid state device  
A clean and stable DC power supply will enhance performance and spectral purity

**Applications:-**

- Educational
- Communications
- Research
- Imaging/sensors

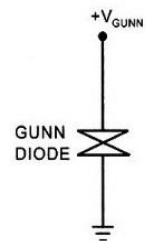


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 50 – 75 GHz
	(mW)	(dBm)		Bandwidth (GHz)
60.0	10	10.0	~ 5.9	± 3.5
60.0	20	13.0	~ 5.9	± 3.5
60.0	30	14.8	~ 5.9	± 3.5
60.0	40	16.0	~ 5.9	± 3.5
60.0	50	17.0	~ 5.9	± 3.5
60.0	60	18.0	~ 5.9	± 3.5

**Alternative centre frequency available & bandwidth**

Specifications at + 32°C case temperature

- DC input : SMA female
- RF output : UG-385/U flange compatible



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass.

**WR 15 GW-15 Mechanically Tuned Gunn oscillator – Dual micrometer**

The unit utilises a GaAs Gunn device in a waveguide cavity.

Two independent micrometers :-

The frequency micrometer allows adjustment of frequency; the power micrometer allows optimisation of output power

A small amount of bias voltage will provide electronic frequency tuning.

The module provides a convenient way of generating an RF signal using a solid state device  
A clean and stable DC power supply will enhance performance and spectral purity

**Applications:-**

- Educational
- Communications
- Research
- Imaging/sensors

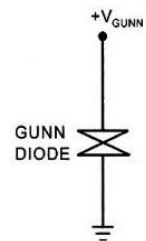


Frequency (GHz)	Power		Voltage (Volts)	Frequency window 50 – 75 GHz
	(mW)	(dBm)		Bandwidth (GHz)
50.0	10	10.0	~ 5.9	± 3.0
50.0	20	13.0	~ 5.9	± 3.0
50.0	30	14.8	~ 5.9	± 3.0
50.0	40	16.0	~ 5.9	± 3.0
50.0	50	17.0	~ 5.9	± 3.0
50.0	60	18.0	~ 5.9	± 3.0
50.0	70	18.4	~ 5.9	± 3.0

**Alternative centre frequency available & bandwidth**

Specifications at + 32°C case temperature

- DC input : SMA female
- RF output : UG-385/U flange compatible



**Note:** Customised performance and outline envelope available e.g. greater bandwidth, smaller outline/ mass.