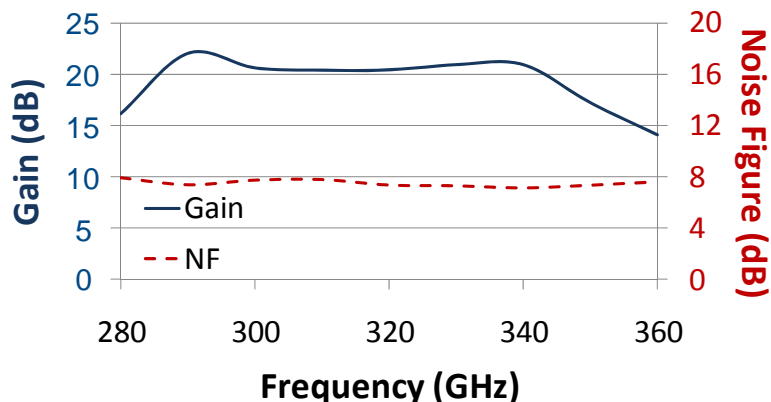


Product Features

- ◆ RF frequency: 300-340 GHz
- ◆ Noise Figure: 8 dB, typical
- ◆ Linear Gain: 20 dB, typical
- ◆ Broadband gain
- ◆ 1 mW output power
- ◆ Waveguide module (WR-3.4 Waveguide Interfaces)
- ◆ DC power: Single bias operation (Tailorable)
- ◆ Module Size: ~ 1"x0.75"x1"
- ◆ Unconditionally Stable



Applications

- ◆ Sub-millimeter-wave Imaging
- ◆ Sensors
- ◆ Radar
- ◆ Short Haul / High Capacity Links
- ◆ Communication Links

Product Description

The MGA2101 is a broadband, low-noise sub-millimeter wave amplifier block. It can be used in applications such as sub-millimeter-wave imaging, commercial digital microwave radios and wireless LANs. For ease of connectivity into systems, standard waveguide rectangular transitions are used to and from the modules. The module uses standard WR-3.4 interfaces.

Performance Characteristics (Ta = 25°C)

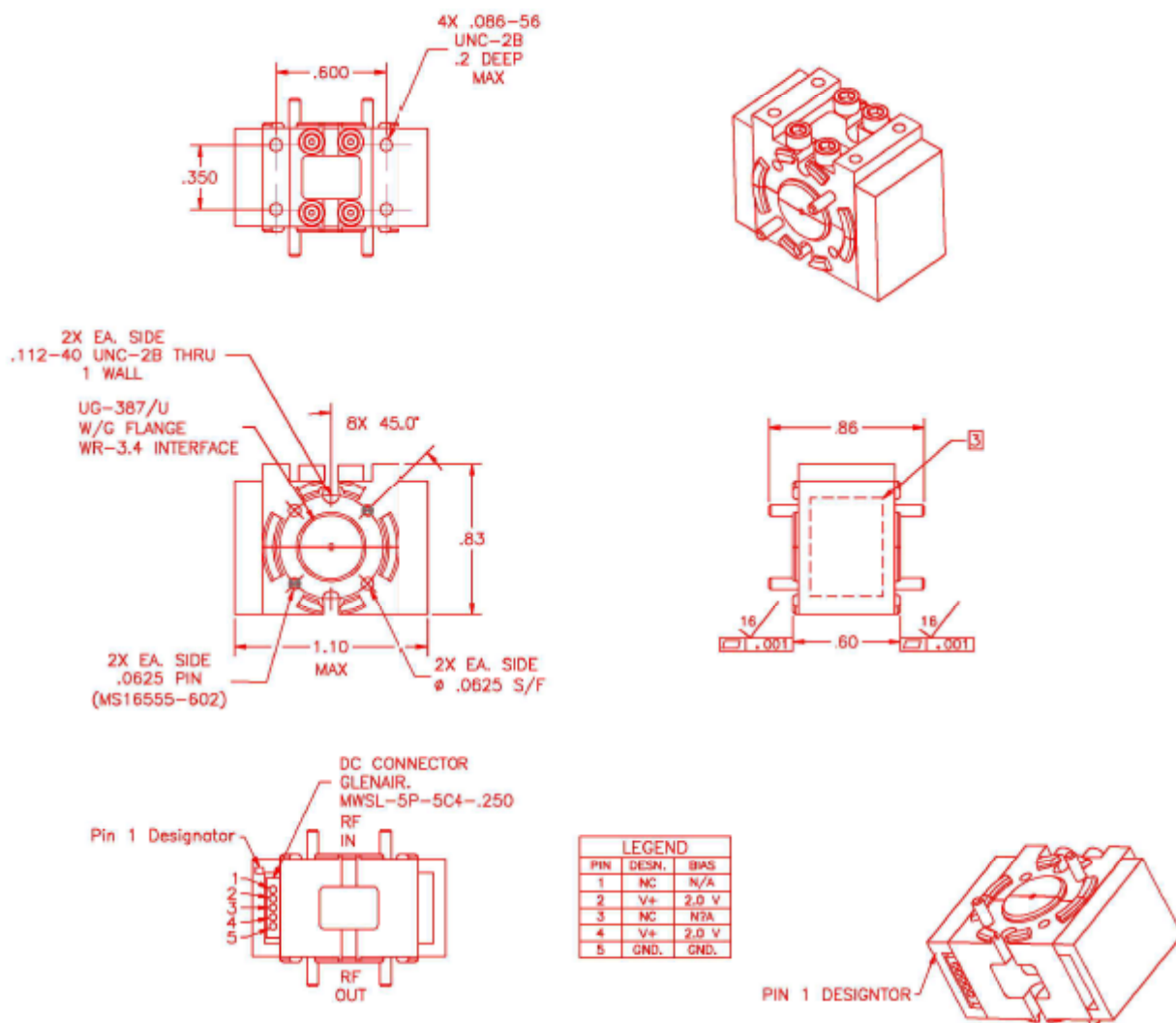
Specification	Min	Typ	Max	Unit
Frequency	300		340	GHz
Linear Gain		20		dB
Noise Figure		8		dB
Output Power		1		mW
Bias Voltage		2		V
Bias Current		30		mA

Absolute Maximum Ratings (Ta = 25°C)

Parameter	Min	Max	Unit
Bias Voltage		2	V
Bias Current		30	mA
Input Power		-15	dBm

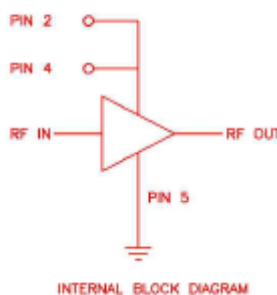
Preliminary Information: The data contained in this document describes new products in the development, sampling or preproduction phase and is for information only. Northrop Grumman reserves the right to change without notice the characteristic data and other specifications as they apply to this product. **This product is for U.S. Sales only. Export out of the U.S. will require a U.S. State Department export license.**

OUTLINE & PIN DRAWINGS



Bias

Each module will be provide with bias information and reference performance data.



Preliminary Information: The data contained in this document describes new products in the development, sampling or preproduction phase and is for information only. Northrop Grumman reserves the right to change without notice the characteristic data and other specifications as they apply to this product. **This product is for U.S. Sales only. Export out of the U.S. will require a U.S. State Department export license.**