

This Class AB, GaN amplifier module is ideal for a variety of needs due to its extremely wide frequency band of operation. It will work with any radio system and modulation for data and video links. This amplifier offers high linear transmit power with superior EVM performance and efficiency, while also providing a low-noise front end to maintain the highest data rate possible. One of the smallest in the industry, its rugged construction guarantees fault-free operation in the most extreme environments.

Transmit Specifications				
Parameter	Min	Typ.	Max	Unit
Operating Frequency	30		3000	MHz
P1dB Power Output		4		Watts
P _{SAT}		8		Watts
Gain		17		dB
Gain Flatness		±0.3	±1.3	dB
Input Return Loss		-12		dB
Noise Figure	2.2	4		dB
Operating Voltage		28	30	VDC
Current Draw	350	700	800	mA
Switching Time		1	2	mS

Mechanical		
Parameter	Value	Unit
Dimensions (L x W x H)	2.75 x 2.0 x .52	Inches
Weight	3	oz
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Feed-through pin	--
Cooling	Optional Heatsink	--
Mounting	Thru-Hole for 4-40 screws	--

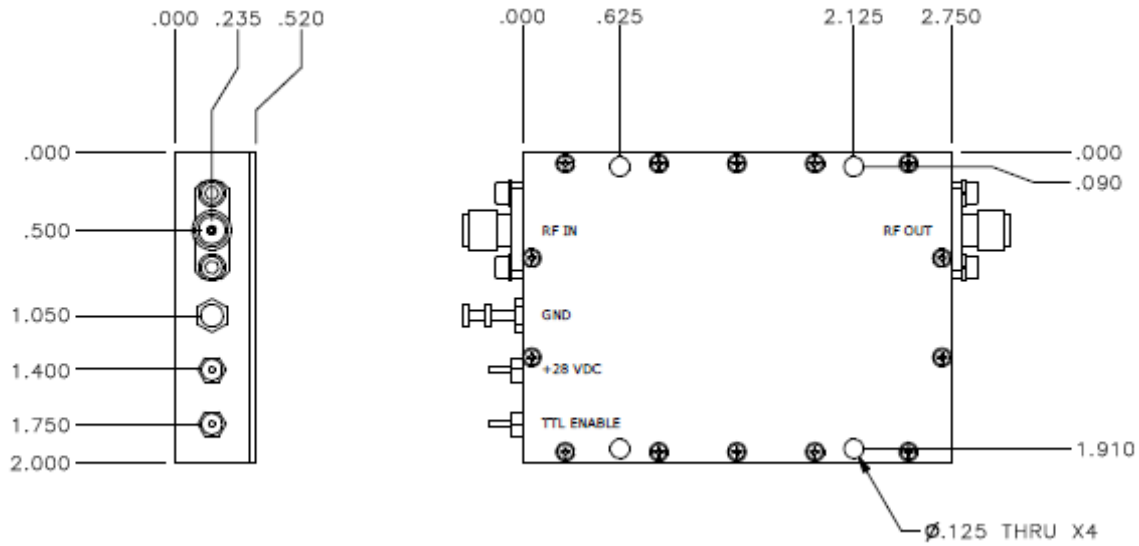
Environmental / Protections				
Parameter	Min	Typ	Max	Unit
Operating Temp. (Housing Temp.)	-40		+80	°C
Storage Temp Range	-65		+150	°C
Altitude	0-30,000			ft.
Max RF Input	28			dBm
Load VSWR @ P1dB	∞ at all amplitudes / phase angles			

*Specifications subject to change without notice

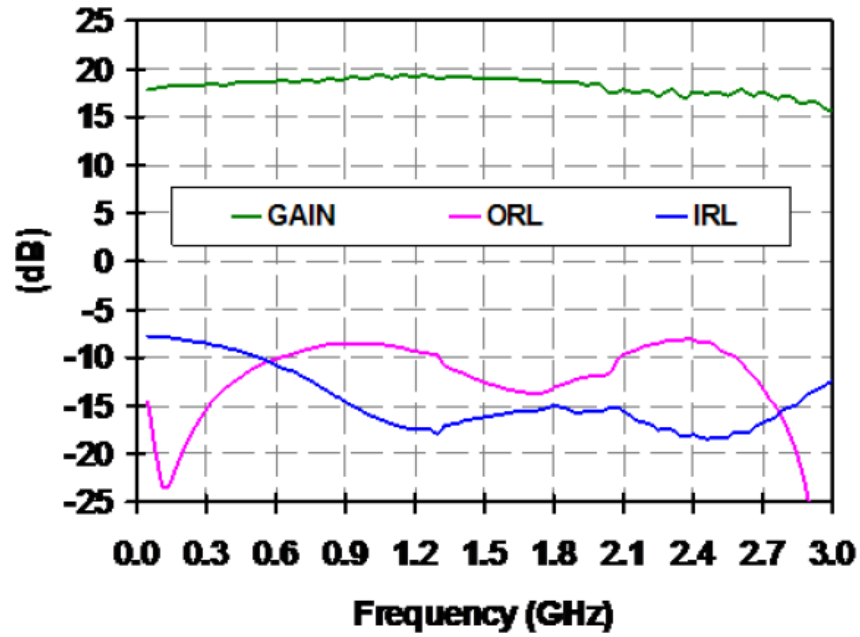
DC / Control Pins

Pin	Description	Value
+VDC	DC Supply	+28 VDC
TTL ENABLE	TTL ON/OFF	+5V = On / 0V = Off
GND	--	--

Mechanical Outline



Small Signal Gain / S11 / S22 Plot



P1dB / PSat Plot

