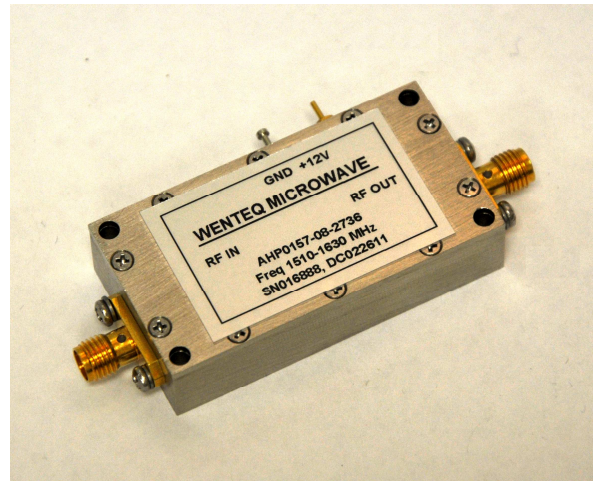


Features:

- 4 Watt typical P-1dB output Power at 1510~1630MHz
- Low noise figure, high gain with good gain flatness
- Low VSWR, unconditional stable
- SMA female connector I/O
- Single DC power supply, Integrated internal voltage regulator
- Operating temperature -40~+65°C, storage temperature -55~+125°C



General Description

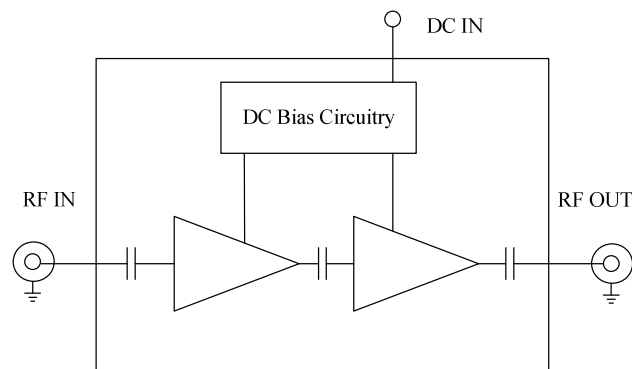
AHP0157-08-2736 is a two stage GaAs MESFET high linear power amplifier module operating in the frequency of 1510MHz to 1630 MHz. The amplifier provides 27dB of small signal gain, +36dBm of output power at 1dB gain compression, excellent gain flatness and good VSWR at both input and output. The amplifier requires only a positive DC power supply, its built-in DC voltage regulator and internal sequencing circuitry makes the application more robust.

Typical Applications

AHP0157-08-2736 is ideal for:

- Radior astronomy
- Space research
- Aeronautical radio navigation
- Mobile satellite
- Distress signal

Functional Diagram



Electrical Specifications

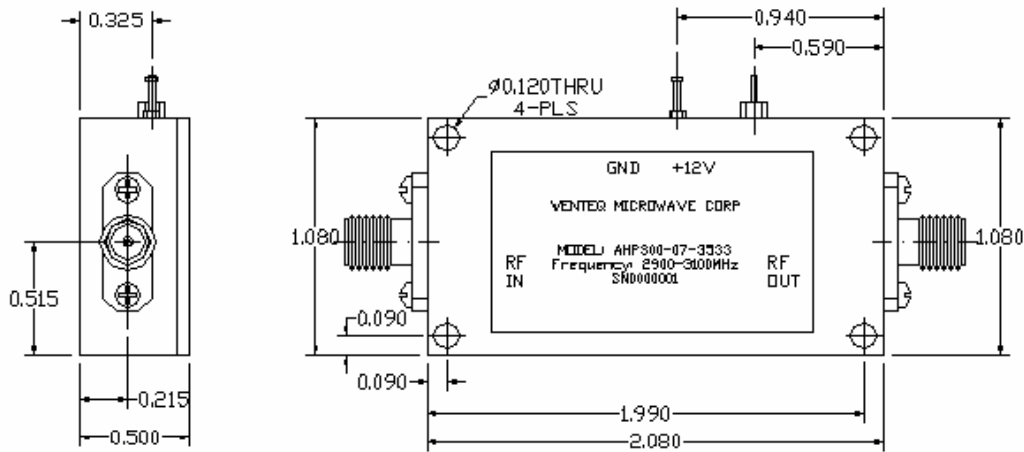
Parameters	Specifications		
	Minimum	Typical	Maximum
Frequency Range	1510 MHz		1630MHz
P-1dB Compression Point	+35 dBm	+36 dBm	
Output IP3	+45 dBm	+47 dBm	
Nominal SS Gain @25°C	25 dB	27dB	29 dB
Gain flatness		+/-0.25 dB	+/-0.5 dB
Gain Variation		+/-0.75 dB	
Noise Figure		3.0 dB	4.0 dB
Input VSWR		1.6:1	1.8:1
Output VSWR		1.6:1	1.8:1
Reverse Isolation	35 dB	40dB	
Spurious			-60 dBc
Operating Temperature	-40°C		+65°C
Survival Temperature	-55°C		+125°C
DC Voltage	+11.5V	+12 V	+13.0 V
DC Supply Current		800 mA	1100 mA
In/Out connectors	SMA female		
Outline Dimensions (not including SMA and feed pin)	Option 1 without heat sink: 2.08"x1.08"x0.50" Option 2 with heat sink 2.28"x2.4"x1.45"		

Absolute Maximum Ratings

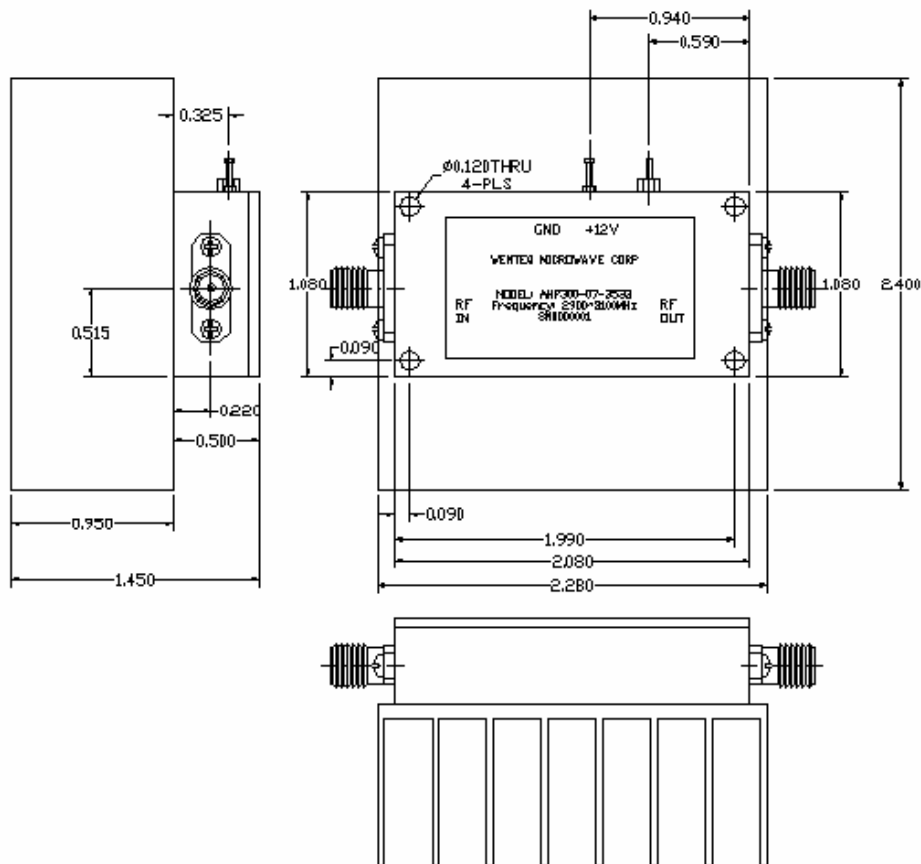
DC Voltage	+13V
RF Input Power	+15dBm
Maximum Load VSWR	3:1
Storage Temperature	-55~+125°C
Operating Temperature	-45~+65°C

Mechanical Structure:

Option 1: outline drawing without heat sink



Option 2, outline drawing with heat sink



Note: All units in inches.