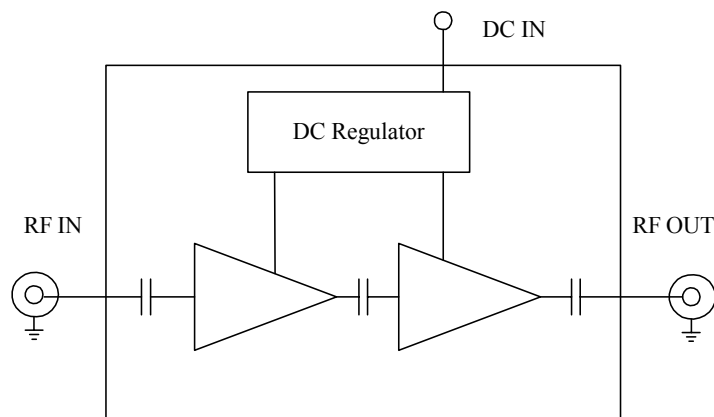


Features:

- Octave bandwidth, specification from 1.0~2.0GHz, usable from 0.5~2.5GHz
- Low noise figure, and high gain
- Low VSWR, unconditional stable
- Small size, low cost
- SMA female connector I/O
- Single DC power supply, internal voltage regulator, operating voltage from +8~+15V
- Operating temperature -40~+75°C, storage temperature -55~+85°C

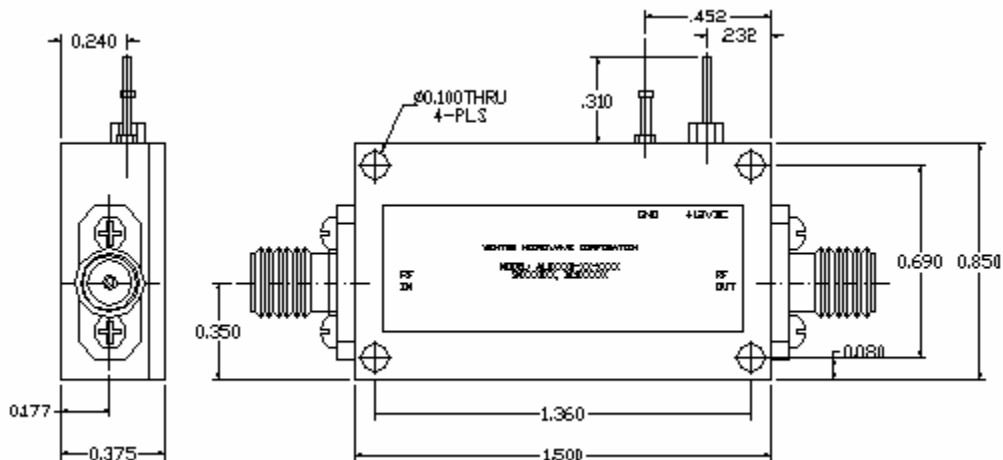
Functional Diagram



Electrical Specifications

Frequency Range	1000 MHz to 2000 MHz
Noise Figure	1.6dB Typical, 1.8dB Max
P-1dB Compression Point	+15dBm typical, +14dBm min
Nominal Gain	35 dB typical @25°C
Gain flatness	+/-0.5 dB Max
Gain Variation	+/-1.0dB typical
Input VSWR	2.0:1 Max
Output VSWR	2.0:1 Max
Reverse Isolation	60dB Typical
Spurious	-60 dBc max
Operating Temperature	-45 to +85°C
Survival Temperature	-55 to +125°C
DC Power Supply	120mA@+12V(+8~+15 V)
In/Out connectors	SMA female
Size	1.5"x0.85"x0.375

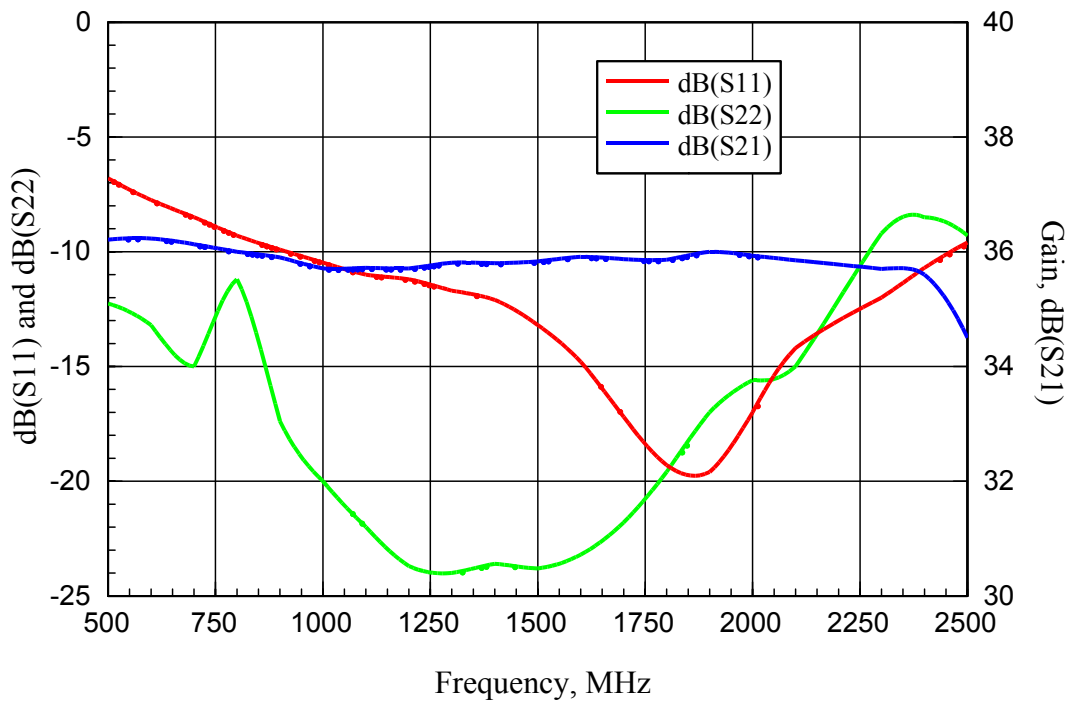
Mechanical Structure:



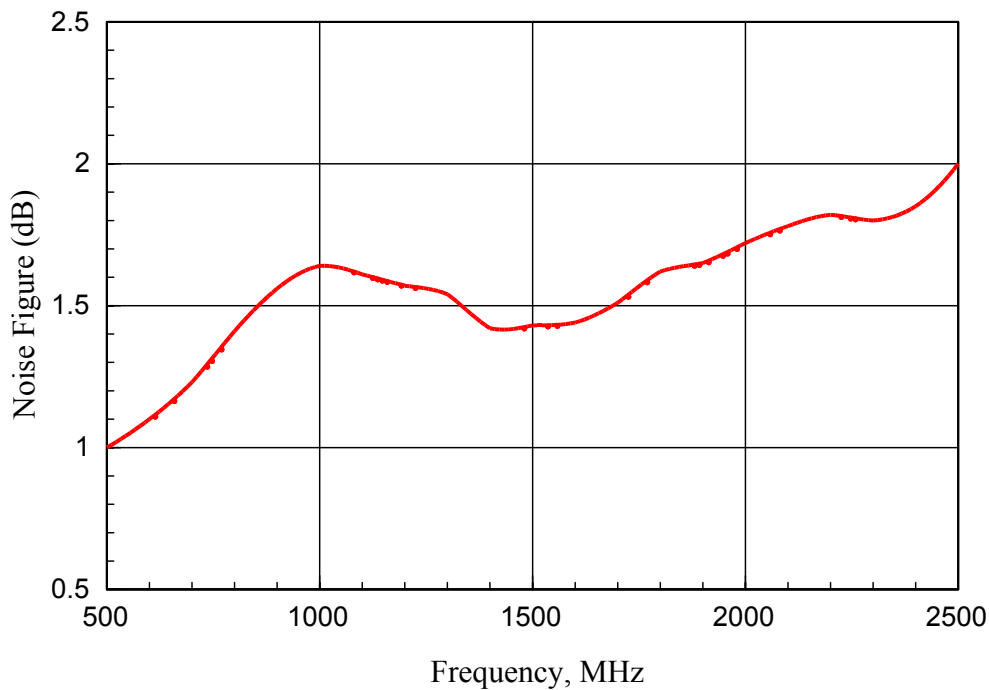
Note: All units in inches.

Typical Test Results:

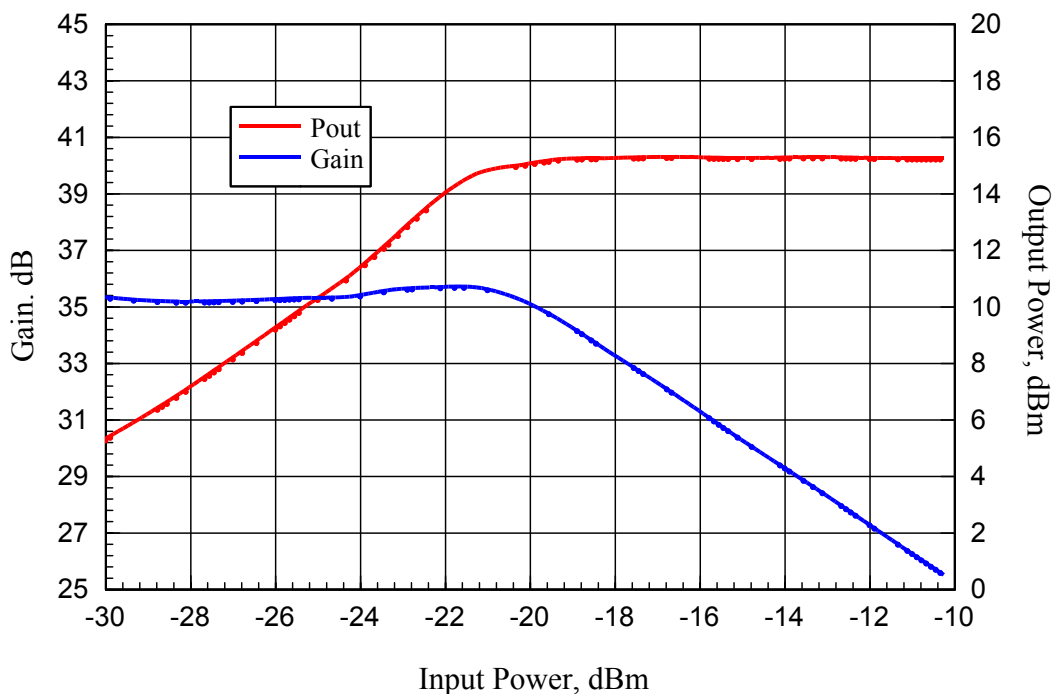
ABL0200-50-3516 Measured Gain and Return Loss vs Frequency



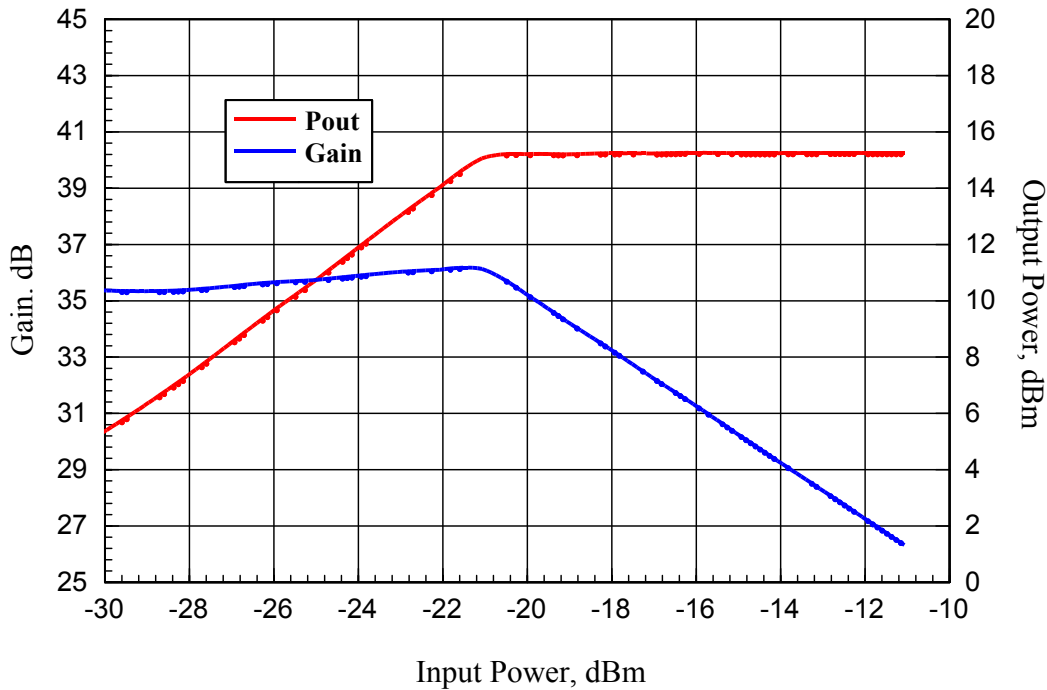
ABL0200-50-3516 Measured Noise Figure vs Frequency



ABL0200-50-3516 Measured Gain and Output Power vs Input Power
Test Frequency: 1000MHz



ABL0200-50-3516 Measured Gain and Output Power vs Input Power
Test Frequency: 2000MHz



Absolute Maximum Ratings

DC Voltage	+15V
RF Input Power	+18dBm
Storage Temperature	-55~+125°C
Operating Temperature	-45~+85°C