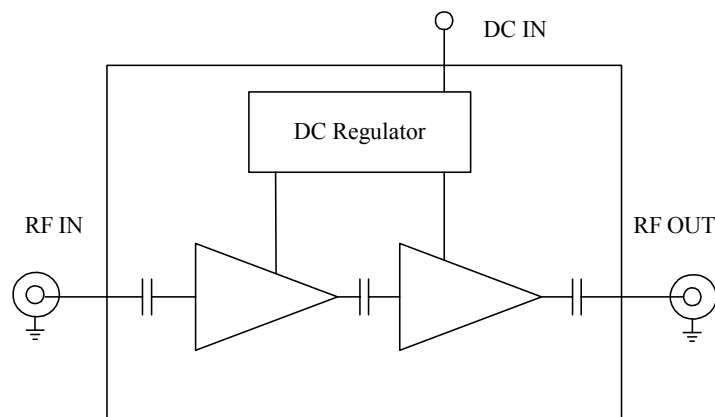


Features:

- Multi-Octave bandwidth, specification from 1.0~4.0GHz
- 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 temperature -40~+75°C, storage temperature -55~+85°C

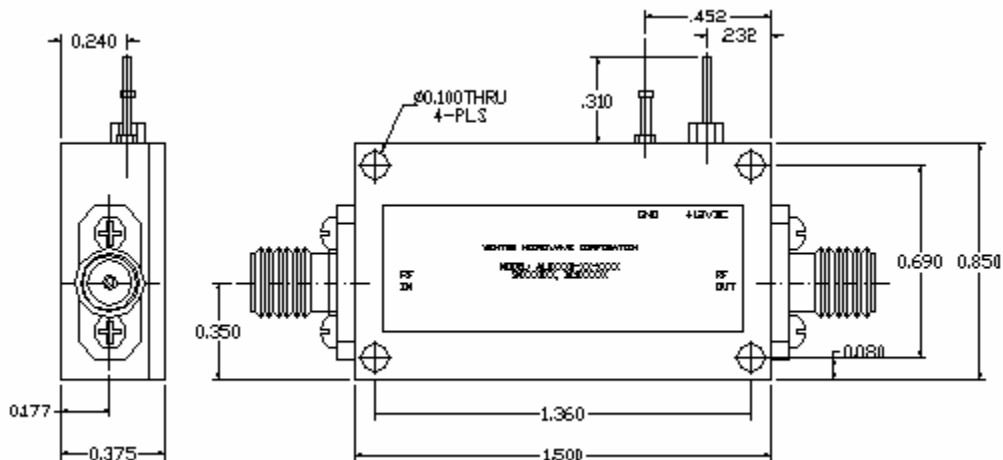
Functional Diagram



Electrical Specifications

Frequency Range	1000 MHz to 4000 MHz
Noise Figure	1.5dB Typical, 1.8 dB Max
P-1dB Compression Point	+15dBm typical, +14dBm min
Nominal Gain	37 dB typical @25°C
Gain flatness	+/-1.0 dB Max
Gain Variation	+/-1.0dB typical
Input VSWR	2.0:1 typical
Output VSWR	2.0:1 Max
Reverse Isolation	50dB Typical
Spurious	-60 dBc max
Operating Temperature	-40 to +75°C
Survival Temperature	-55 to +85°C
DC Power Supply	120mA@+12V(+10~+15 V)
In/Out connectors	SMA female
Size	1.5"x0.85"x0.375

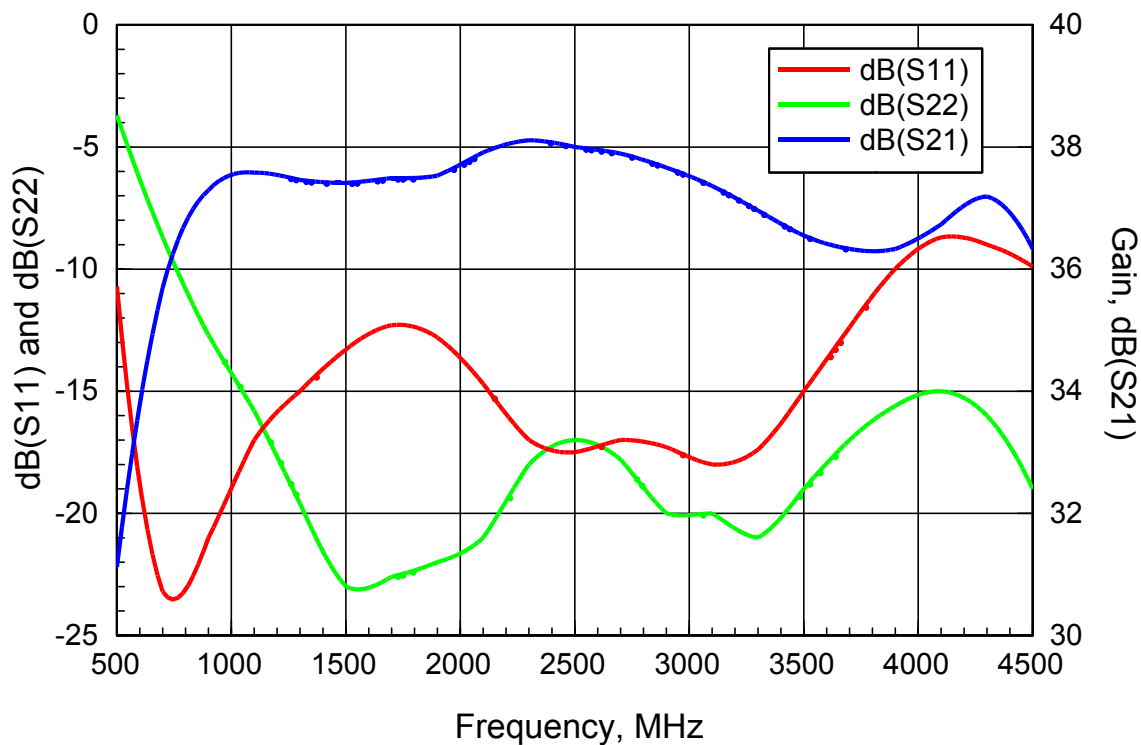
Mechanical Structure:



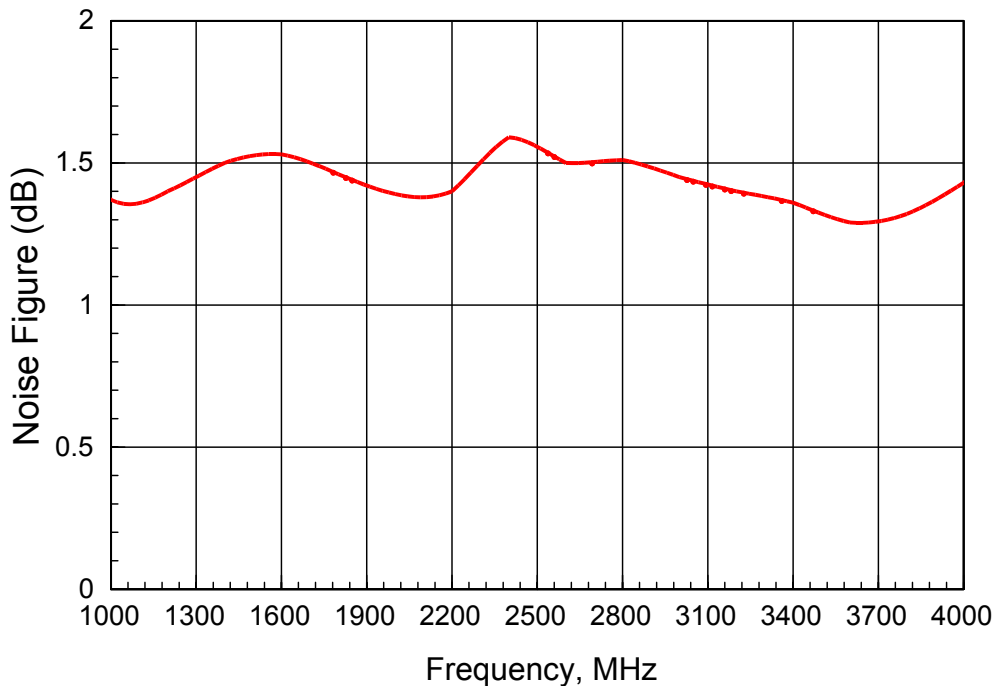
Note: All units in inches.

Typical Test Results:

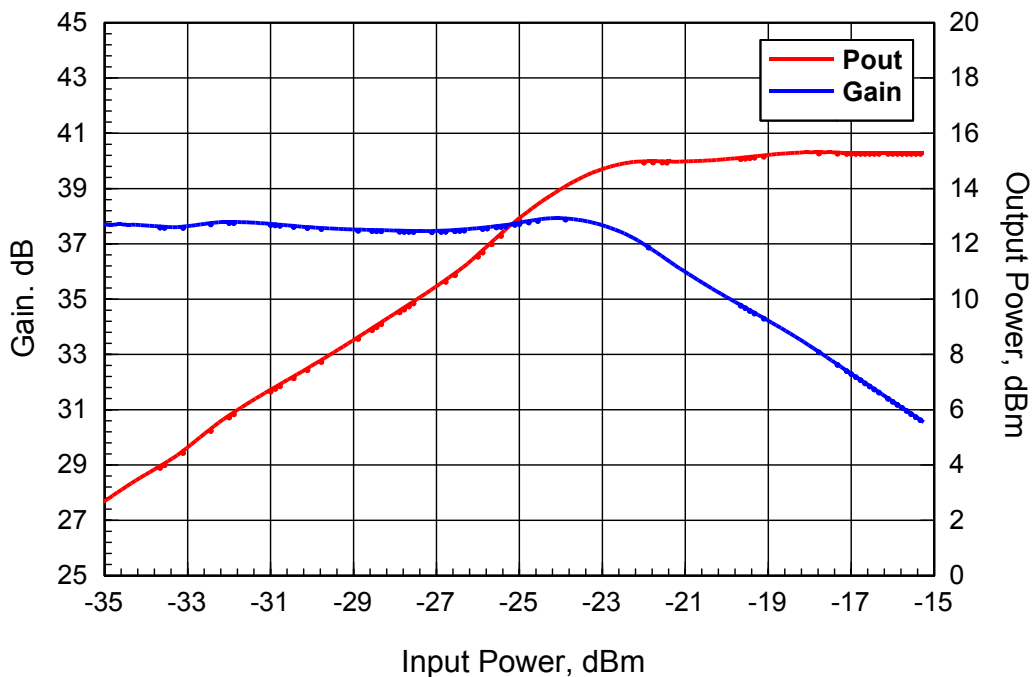
ABL0400-25-3715 Measured Gain and Return Loss vs Frequency



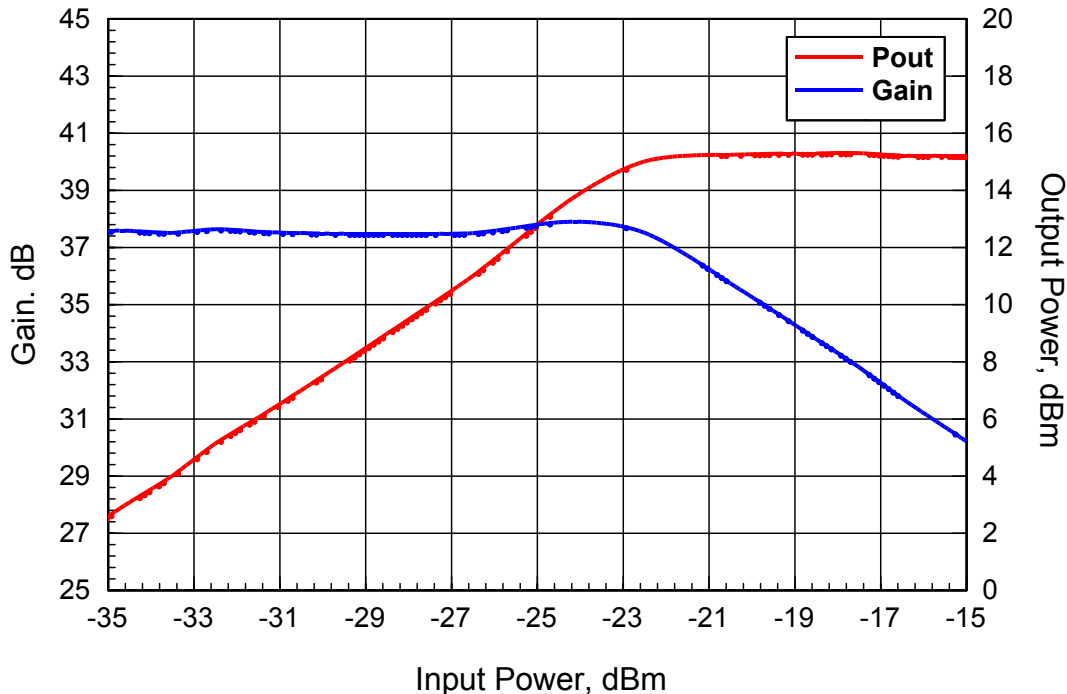
ABL0400-25-3715 Measured Noise Figure vs Frequency



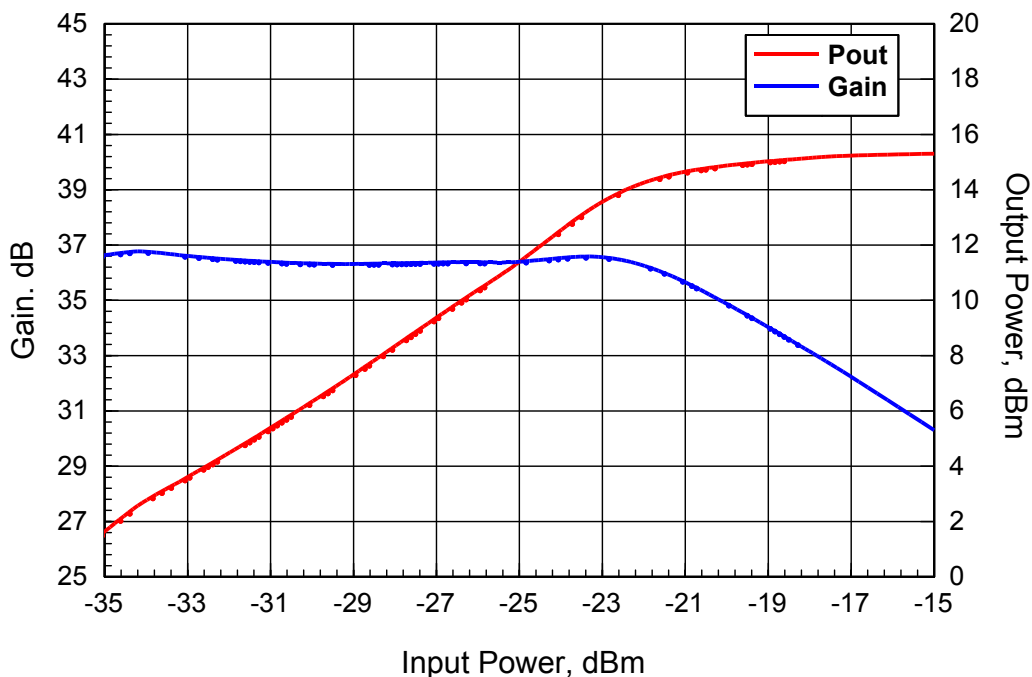
ABL0400-25-3715 Measured Gain and Output Power vs Input Power
Test Frequency: 1000MHz



ABL0400-25-3715 Measured Gain and Output Power vs Input Power
Test Frequency: 2500MHz



ABL0400-25-3715 Measured Gain and Output Power vs Input Power
Test Frequency: 4000MHz





BROADBAND LOW NOISE AMPLIFIER
ABL0400-25-3715

Absolute Maximum Ratings

DC Voltage	+15V
RF Input Power	+18dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C