

## Features:

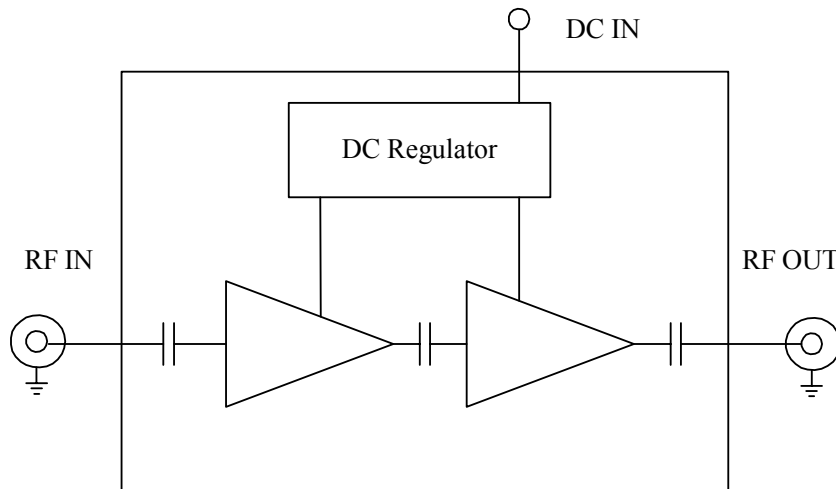
- Broad band operation from 1.0 GHz to 12.0 GHz
- Low VSWR, unconditional stable
- Small size, low cost
- SMA female connector I/O.
- Single DC power supply, internal voltage regulator, operating voltage from +9~+12V
- Operating temperature -40~+75°C, storage temperature -55~+125°C



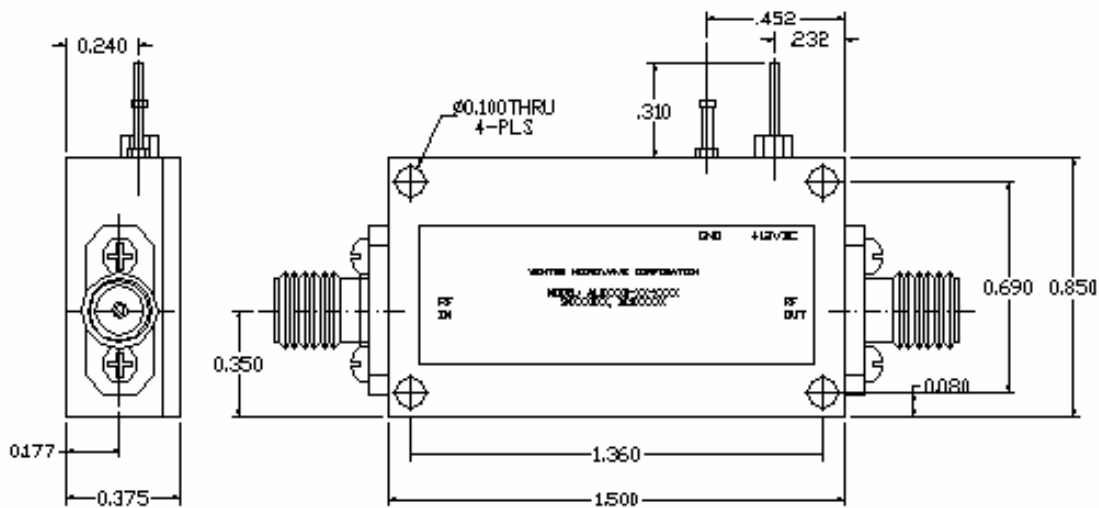
## Electrical Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	1.0 GHz		12.0 GHz
Small Signal Gain @25°C	28 dB	32dB	38 dB
Noise Figure @25°C		2.0 dB	2.5 dB
P-1dB Compression Point	+17dBm @1.0GHz +17dBm @6.5GHz +11 dBm @12GHz	+17dBm @1.0GHz +17dBm @6.5GHz +13 dBm @12GHz	
Output IP3	+22dBm @1.0GHz +22dBm @6.5GHz +18 dBm @12GHz	+26dBm @1.0GHz +26dBm @6.5GHz +22 dBm @12GHz	
Gain flatness		+/-2.5 dB	+/-3.0 dB
Gain Variation		+/-2.5 dB	
Input VSWR		2.0:1	2.5:1
Output VSWR		2.0:1	2.5:1
Reverse Isolation	45dB	51 dB	
Non-Harmonic Spurious			-60 dBc
Operating Temperature	-40°C		+75°C
Survival Temperature	-55°C		+125°C
DC Voltage	+8V		+12 V
DC Supply Current	100 mA	120 mA	140 mA
In/Out connectors	SMA female		
Size	1.5"x0.85"x0.375		

Functional Diagram



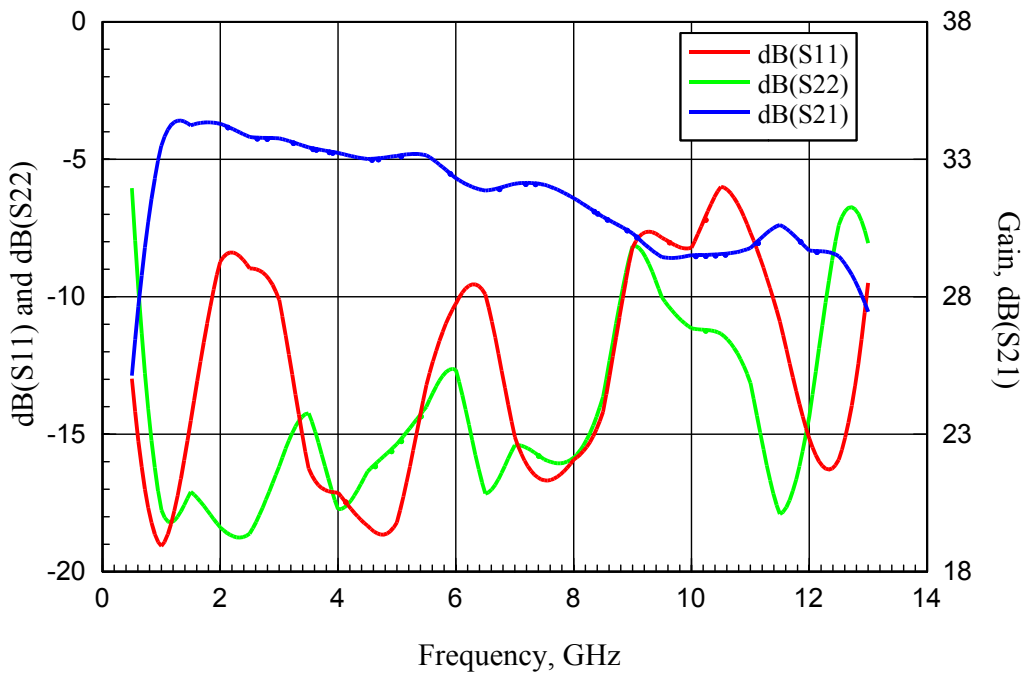
Mechanical Structure:



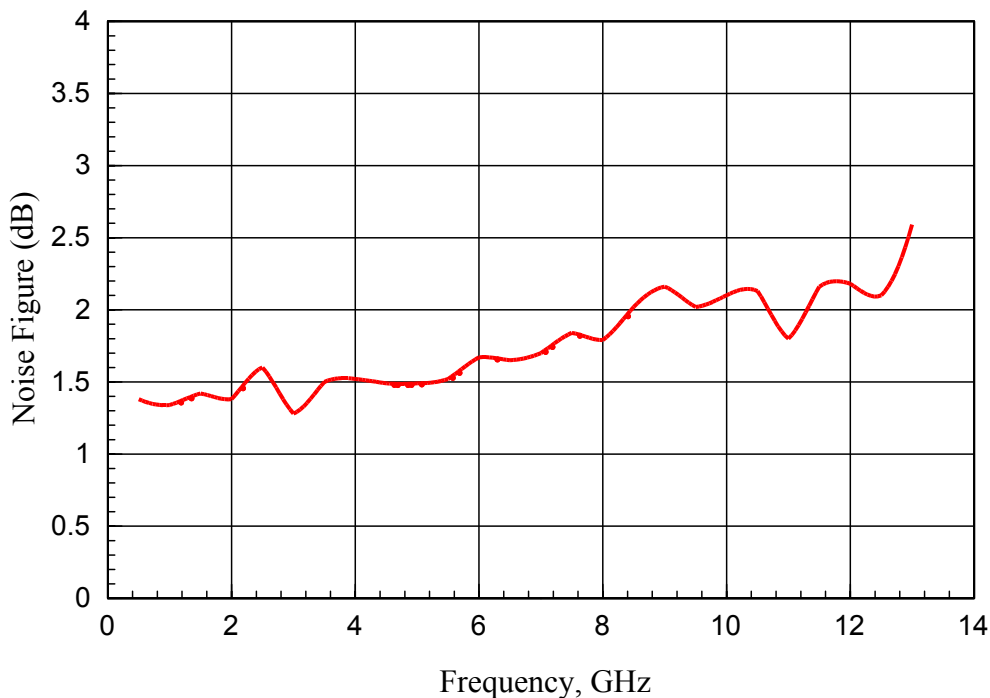
Note: All units in inches.

Typical Test Results:

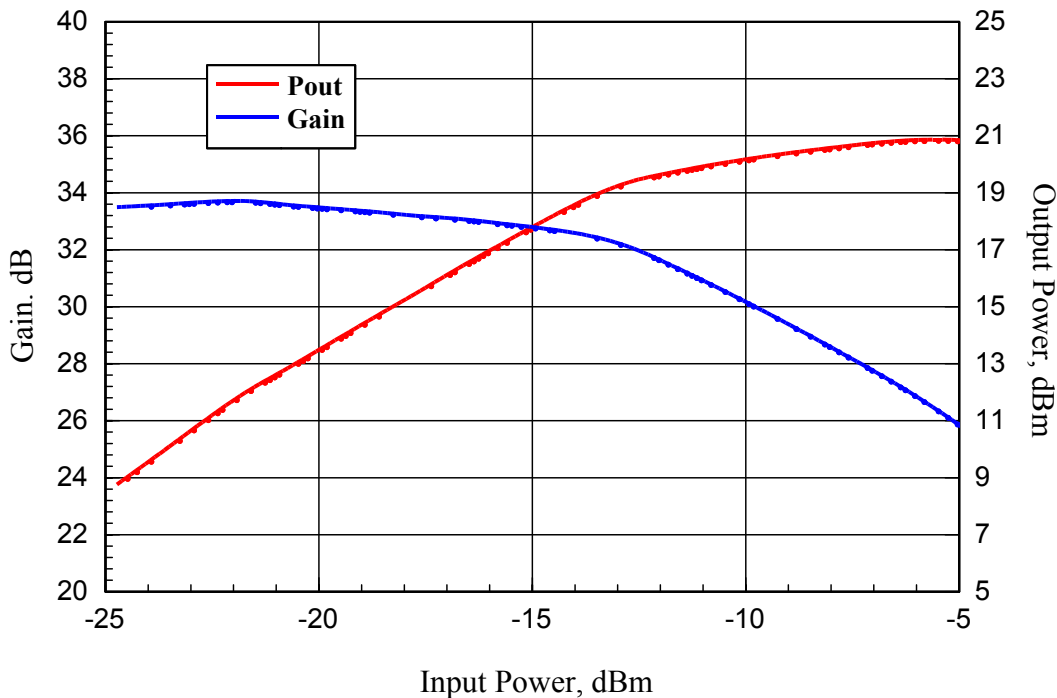
ABL1200-08-3220 Measured Gain and Return Loss vs Frequency



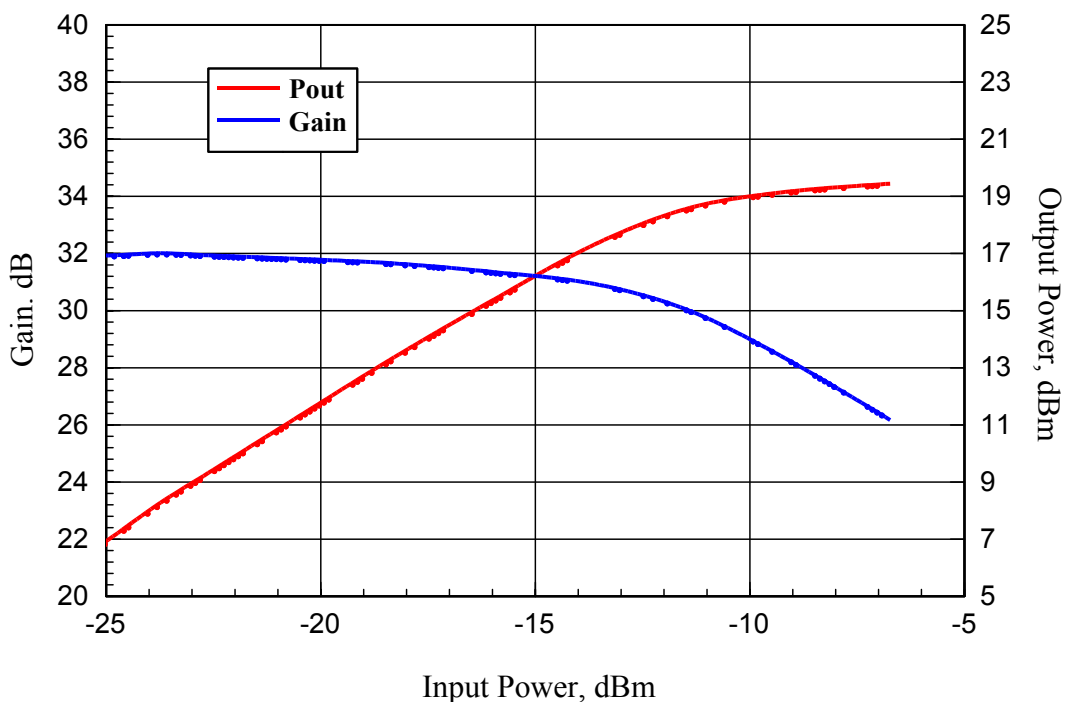
ABL1200-08-3220 Measured Noise Figure vs Frequency



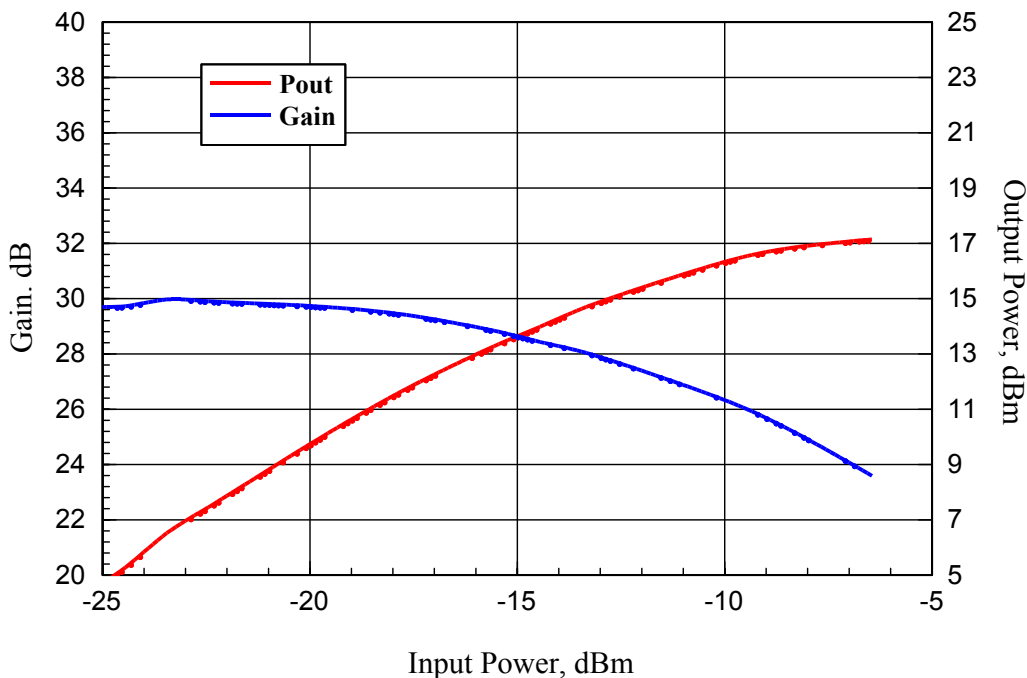
ABL1200-08-3220 Measured Gain and Output Power vs Input Power  
Test Frequency: 1.0GHz



ABL1200-08-3220 Measured Gain and Output Power vs Input Power  
Test Frequency: 6.5GHz



ABL1200-08-3220 Measured Gain and Output Power vs Input Power  
Test Frequency: 12.0GHz



Absolute Maximum Ratings

DC Voltage	+13V
RF Input Power	0 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C