

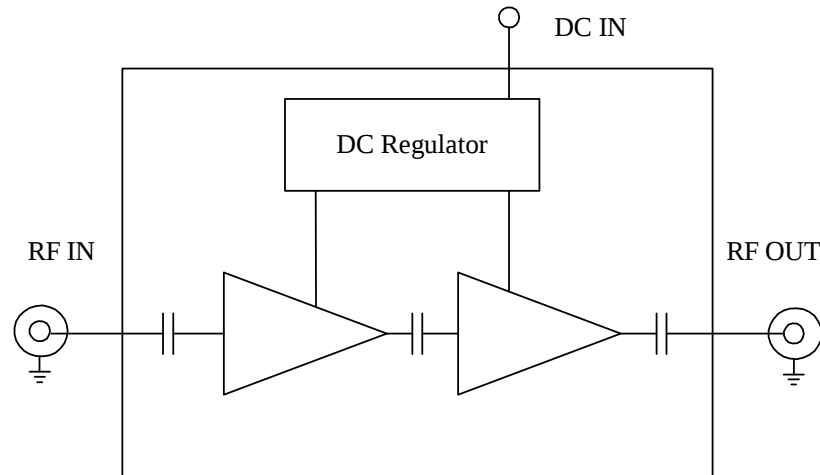
Features:

- 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

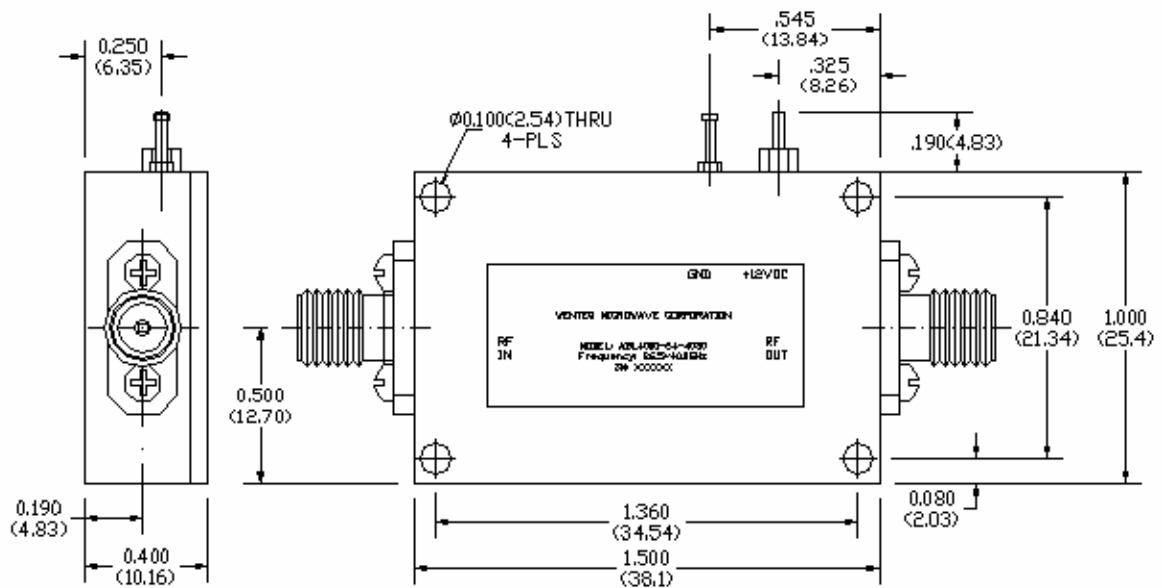
**Electrical Specifications**

Parameters	Units	Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	1.0		12.0
Small Signal Gain @25°C	dB	28.0	32.0	36.0
Noise Figure @25°C	dB		2.0	2.5
P-1dB Compression Point @1GHz @6.5GHz @12GHz	dBm	+15.0 +15.0 +12.0	+16.0 +16.0 +13.0	
Output IP3 @1GHz @6.5GHz @12GHz	dBm	+22.0 +22.0 +18.0	+26.0 +26.0 +22.0	
Gain flatness	dB		+/-2.5	+/-3.0
Gain Variation	dB		+/-2.5	
Input VSWR			2.0:1	2.5:1
Output VSWR			2.0:1	2.5:1
Reverse Isolation	dB	45.0	51.0	
Non-Harmonic Spurious	dBc			-60.0
Operating Temperature	°C	-40		+85
Survival Temperature	°C	-55		+125
DC Voltage	V	+8.0		+12.0
DC Supply Current	mA	100 mA	120 mA	140 mA
In/Out connectors		SMA Female		
Size	inches	1.5"x1.0"x0.4"		

Functional Diagram



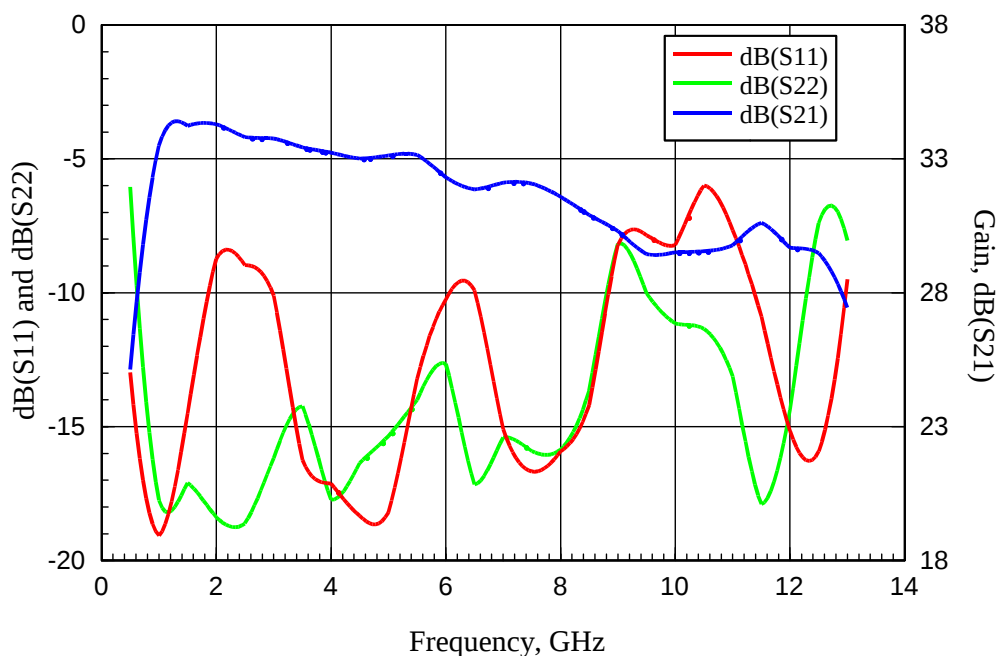
Mechanical Structure:



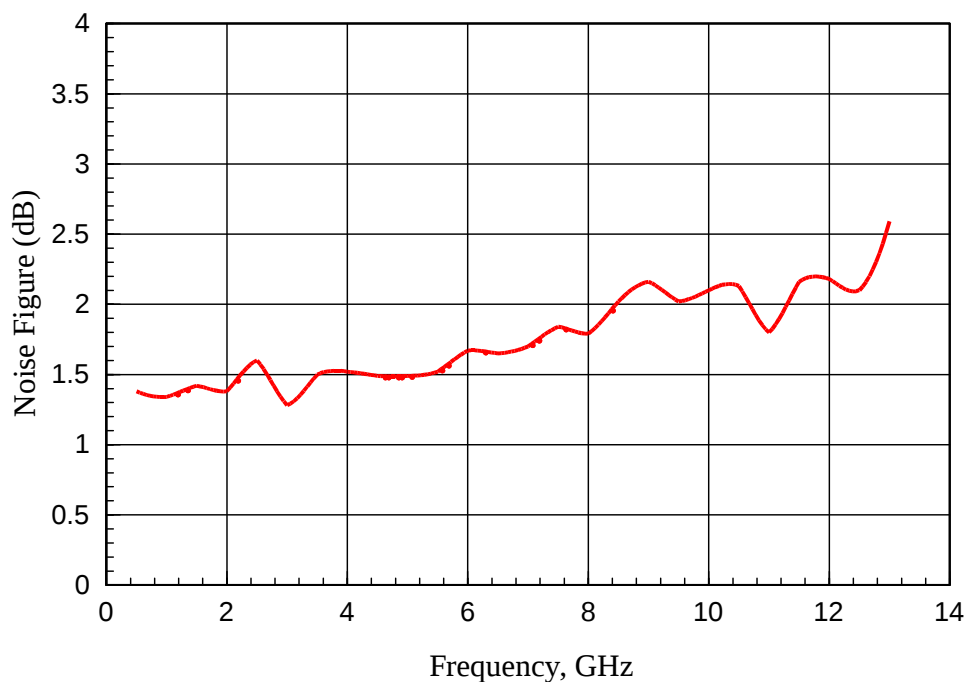
Note: All units in inches.

Typical Test Results:

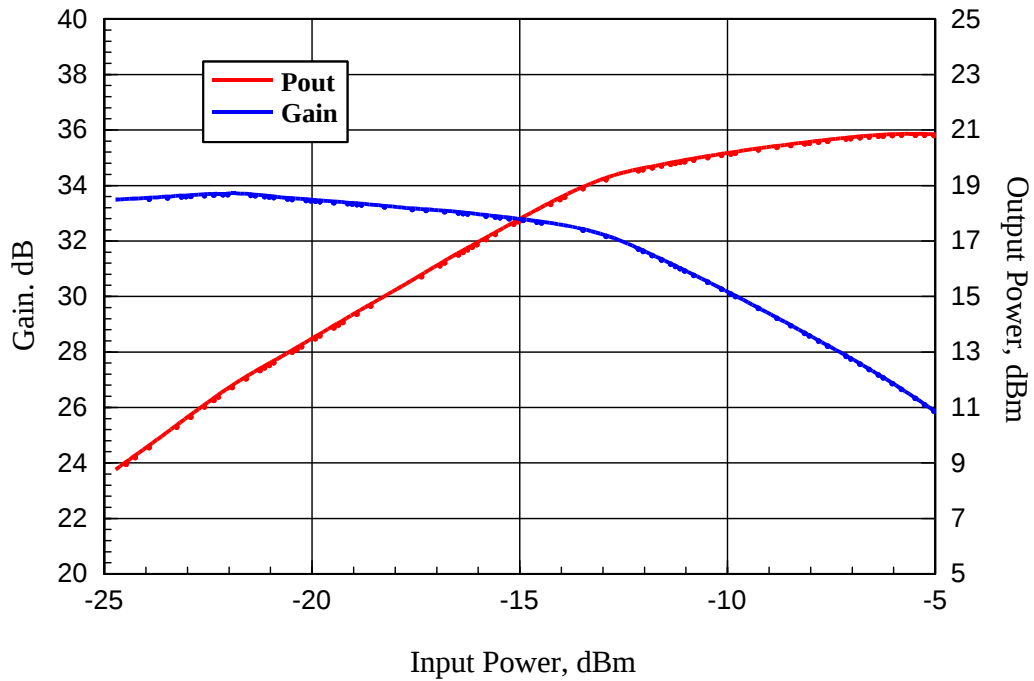
ABL1200-08-3220 Measured Gain and Return Loss vs Frequency



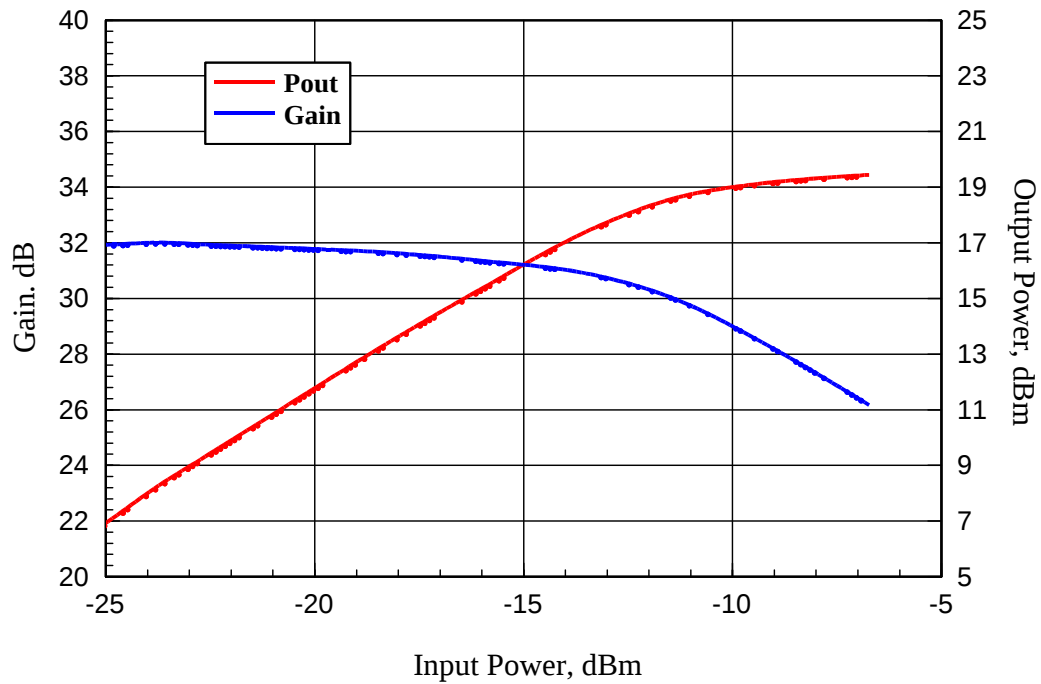
ABL1200-08-3220 Measured Noise Figure vs Frequency



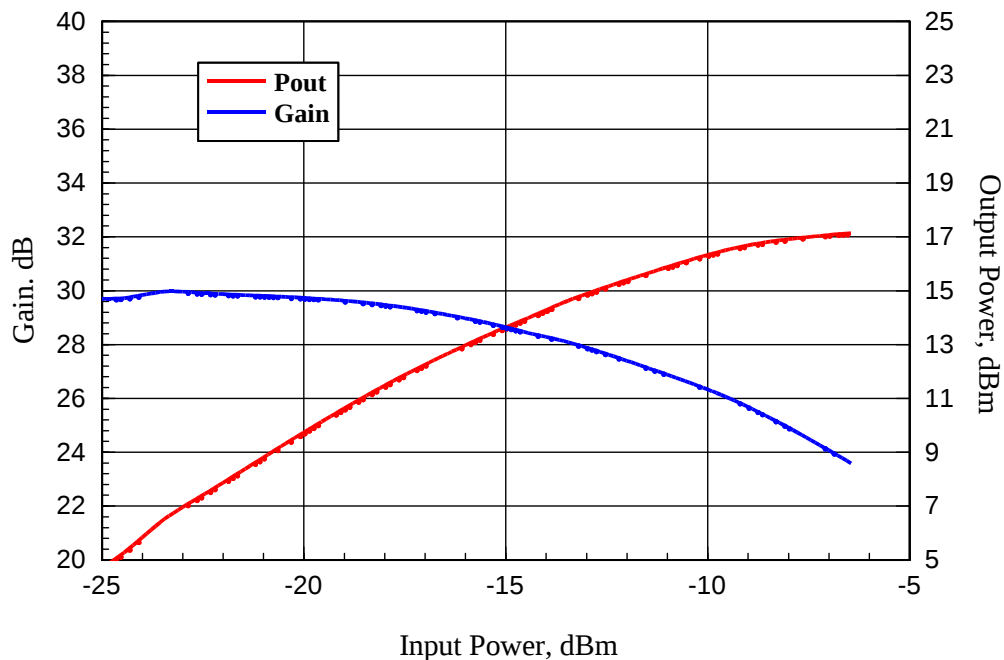
ABL1200-08-3220 Measured Gain and Output Power vs Input Power
Test Frequency: 1.0GHz



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