

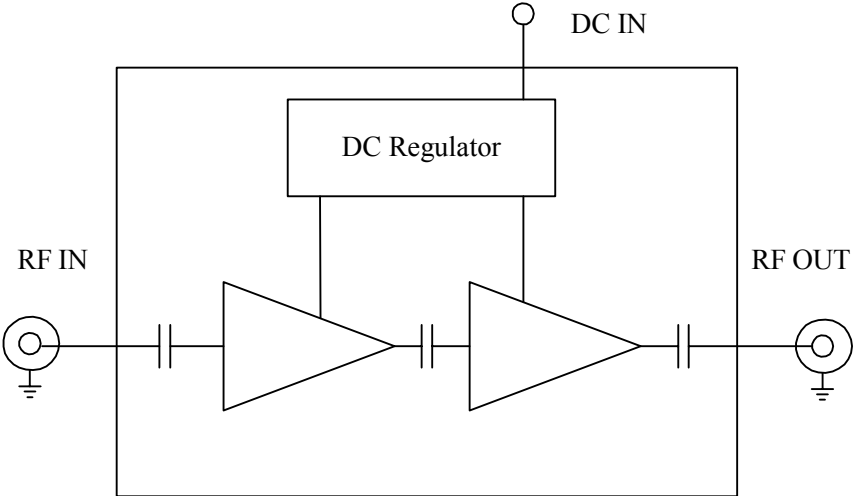
Features:

- Broad bandwidth, specification from 50~6000MHz, usable from 10MHz to 7GHz
- Low VSWR, unconditional stable
- Small size, low cost
- SMA female connector I/O
- Single DC power supply, internal voltage regulator, operating voltage from +9~+15V
- Operating temperature -40~+75°C, storage temperature -45~+125°C

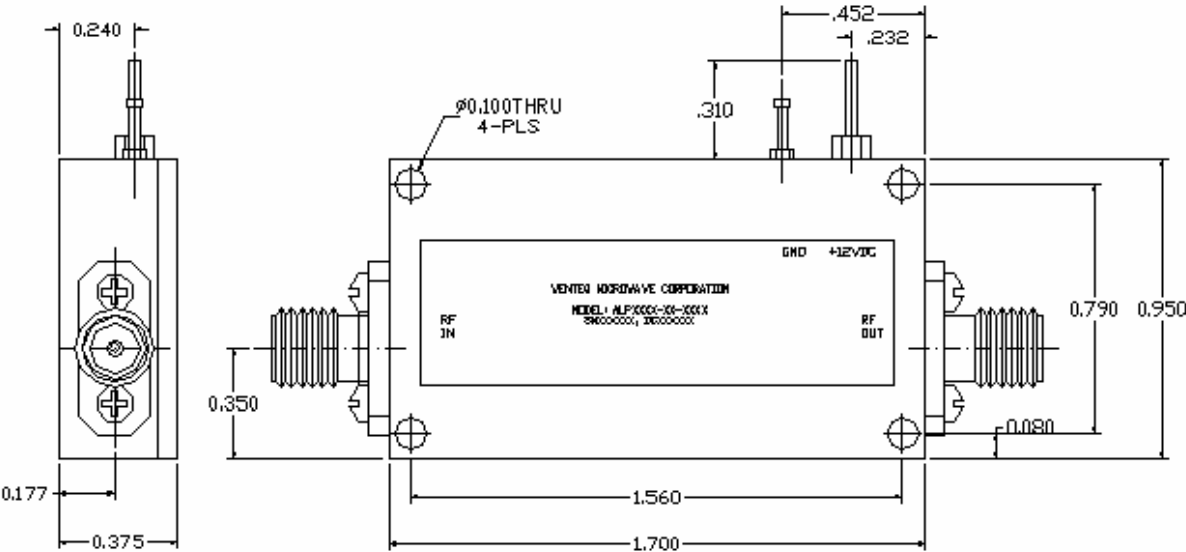
**Electrical Specifications**

Parameters	Minimum	Typical	Maximum
Frequency Range	50 MHz		6000MHz
Noise Figure (from 50MHz)		4.0 dB	4.75 dB
P-1dB Compression Point			
@ 100MHz	+16dBm	+17 dBm	
@ 3GHz	+15dBm	+16dBm	
@6GHz	+9dBm	+10dBm	
Nominal SS Gain @25°C	24 dB	27dB	31 dB
Gain flatness		+/-2.0 dB	+/-2.5 dB
Gain Variation		+/-1.0 dB	
Input VSWR		1.3:1	1.5:1
Output VSWR		1.2:1	1.5:1
Reverse Isolation	37 dB	41dB	
Spurious			-60 dBc
Operating Temperature	-40°C		+75°C
Survival Temperature	-45°C		+125°C
DC Voltage	+9V	+12 V	+15 V
DC Supply Current	110 mA	130 mA	140 mA
In/Out connectors	SMA female		
Size	1.7"x0.95"x0.375		

Functional Diagram



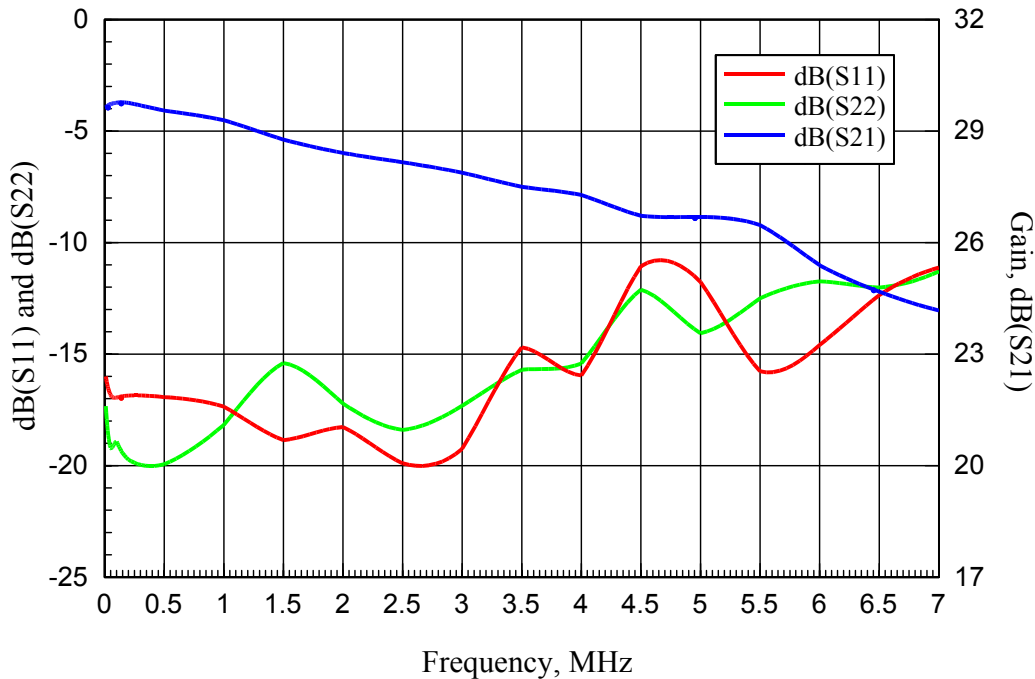
Mechanical Structure:



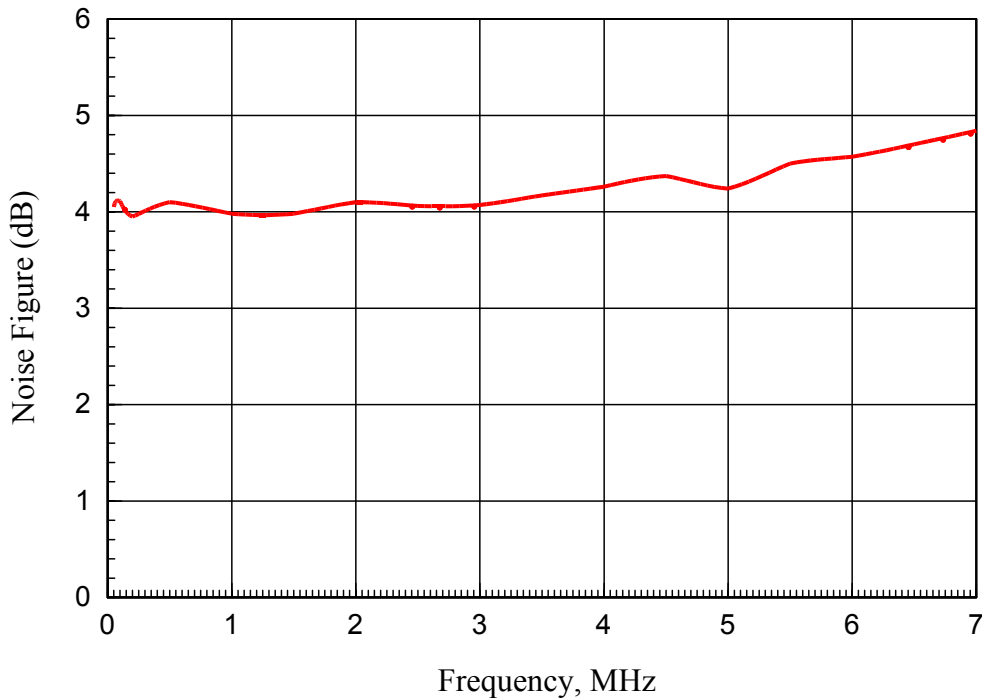
Note: All units in inches.

Typical Test Results:

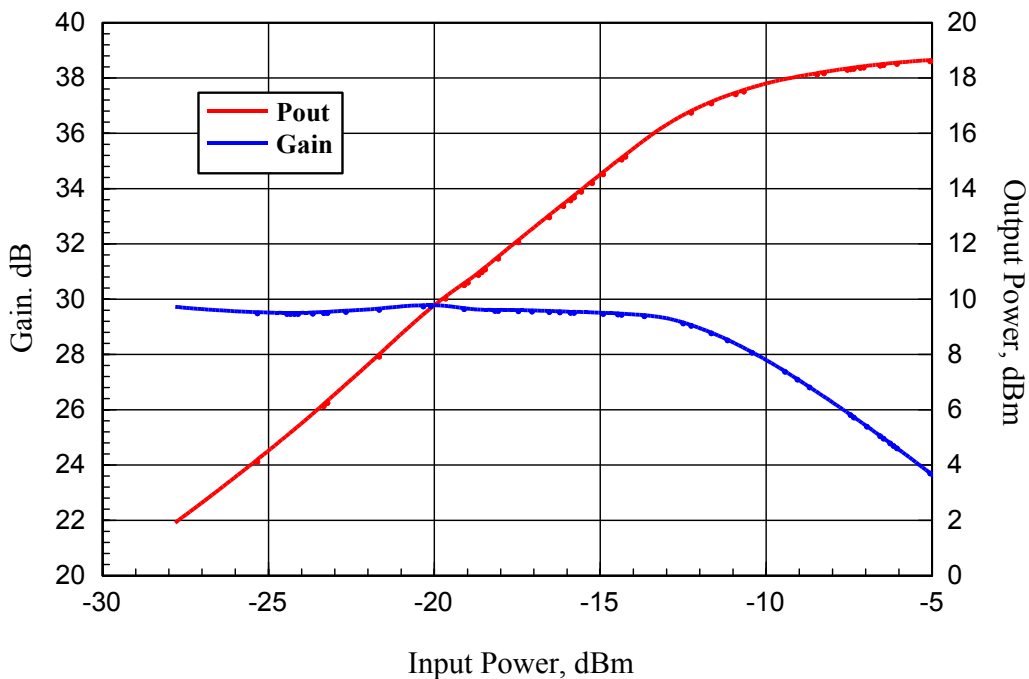
ABL0600-01-2740 Measured Gain and Return Loss vs Frequency



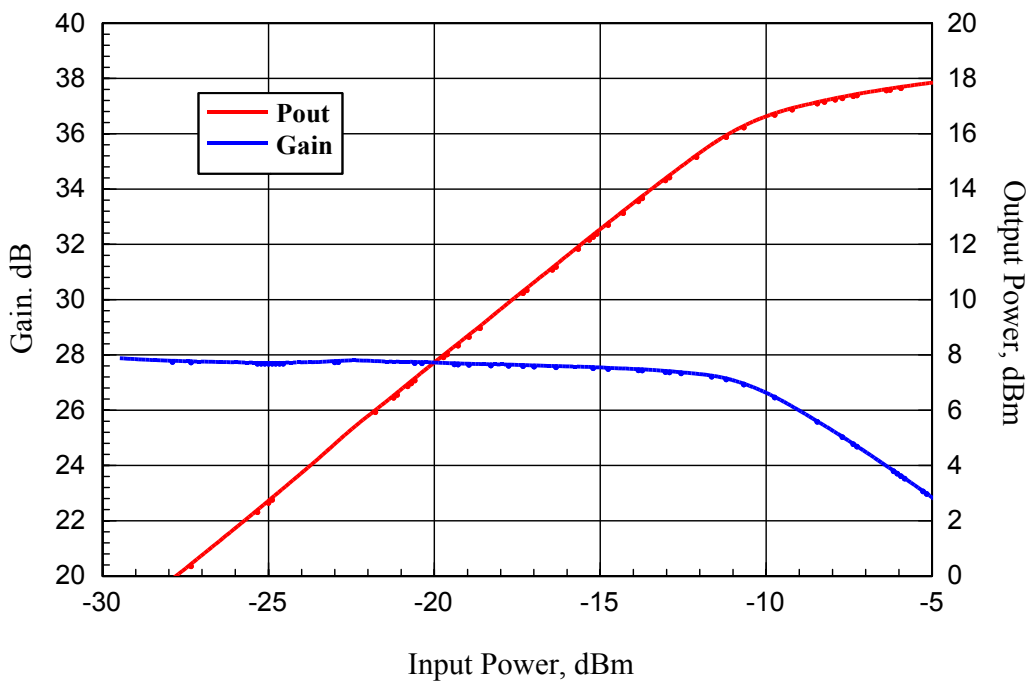
ABL0600-01-2740 Measured Noise Figure vs Frequency



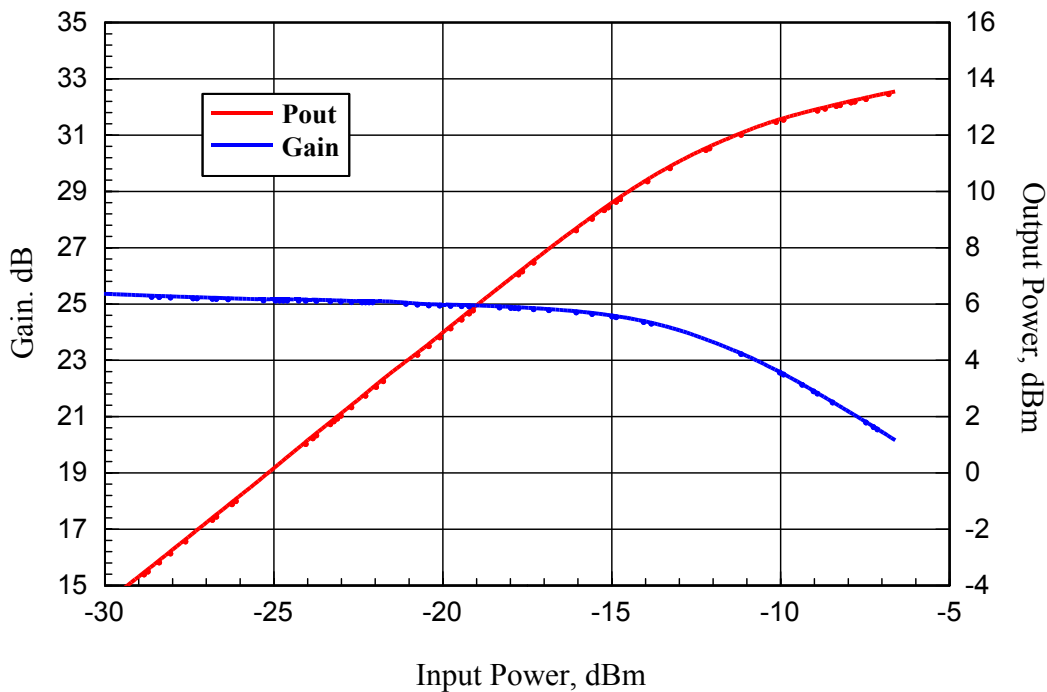
ABL0600-01-2740 Measured Gain and Output Power vs Input Power
Test Frequency: 100MHz



ABL0600-01-2740 Measured Gain and Output Power vs Input Power
Test Frequency: 3000MHz



ABL0600-01-2740 Measured Gain and Output Power vs Input Power
Test Frequency: 6000MHz



Absolute Maximum Ratings

DC Voltage	+15V
RF Input Power	+10 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C