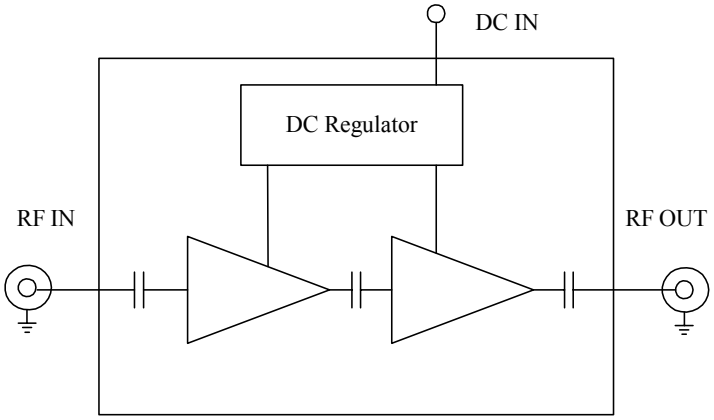
BROADBAND LOW NOISE AMPLIFIER
ABL0150-50-3914

Features:

- Octave bandwidth, specification from 750~1500MHz, usable from 500~2000MHz
- 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

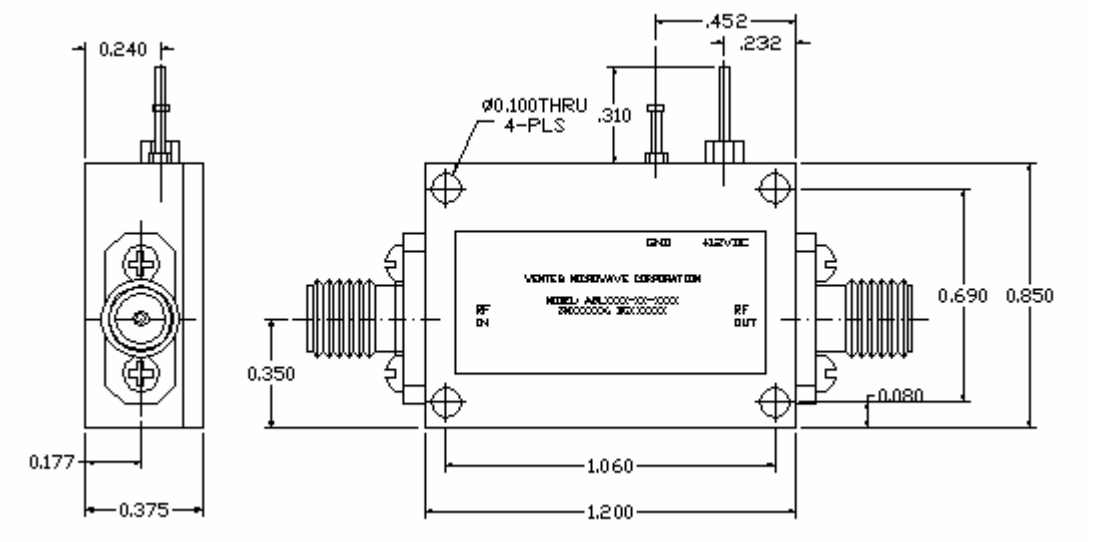


Electrical Specifications

Frequency Range	750 MHz to 1500 MHz
Noise Figure	1.4dB Typical, 1.7dB Max
P-1dB Compression Point	+11dBm typical, +10dBm min
Nominal Gain	39 dB typical @25°C
Gain flatness	+/-0.5 dB Max
Gain Variation	+/-1.0dB typical
Input VSWR	2.0:1 Typical
Output VSWR	2.0:1 Typical
Reverse Isolation	60dB Typical
Spurious	-60 dBc max
Operating Temperature	-45 to +85°C
Survival Temperature	-55 to +125°C
DC Power Supply	70mA@+12V(+10~+15 V)
In/Out connectors	SMA female
Size	1.2”x0.85”x0.375

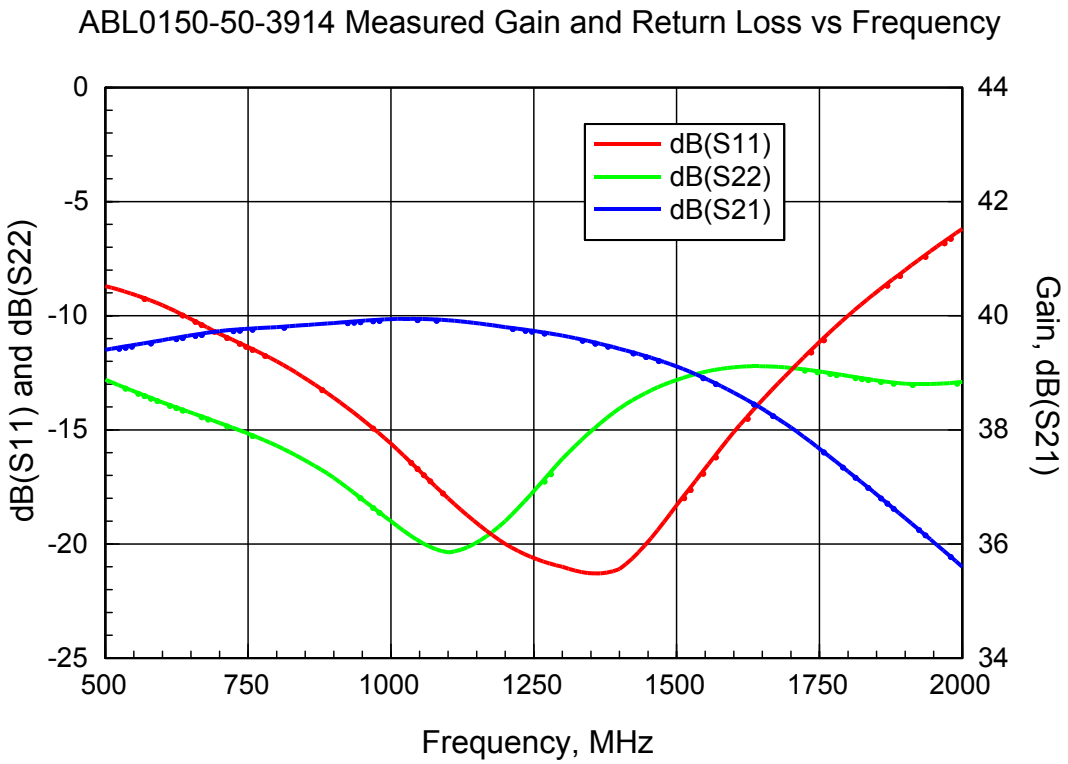
724 South Old Ranch Road, Unit D, Arcadia, CA 91007
Phone: (626) 241-4162, Fax: (626) 602-3101, sales@wenteq.com, www.wenteq.com

Mechanical Structure:



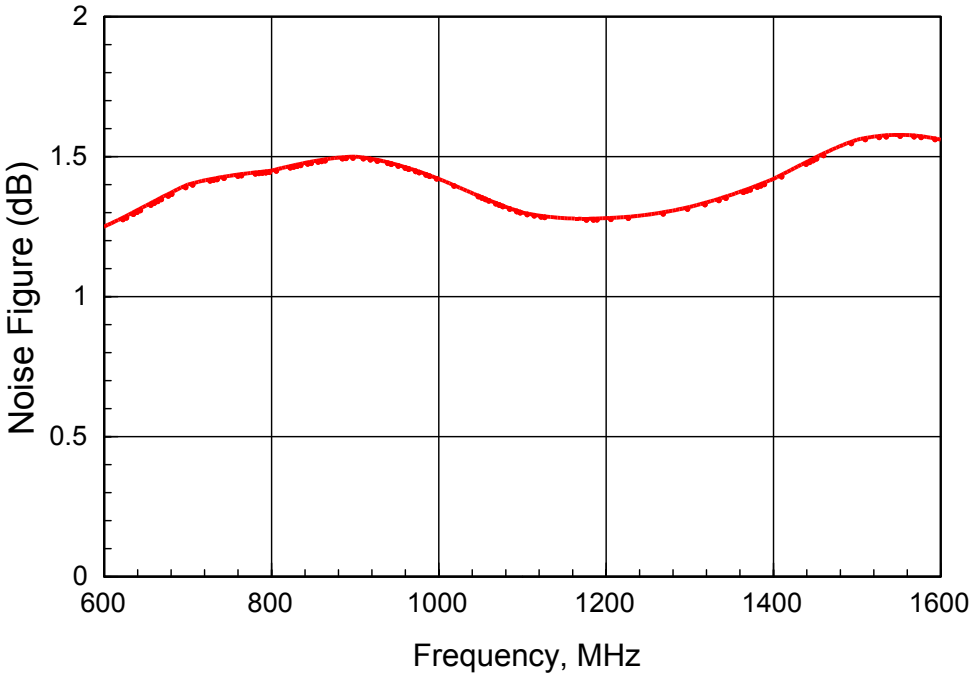
Note: All units in inches.

Typical Test Results:

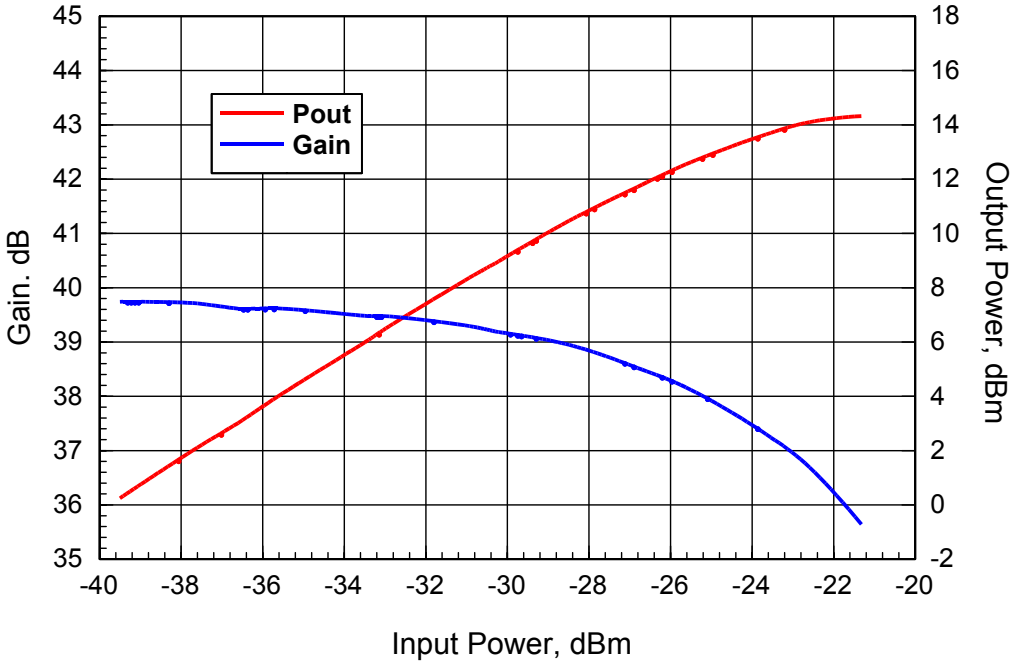


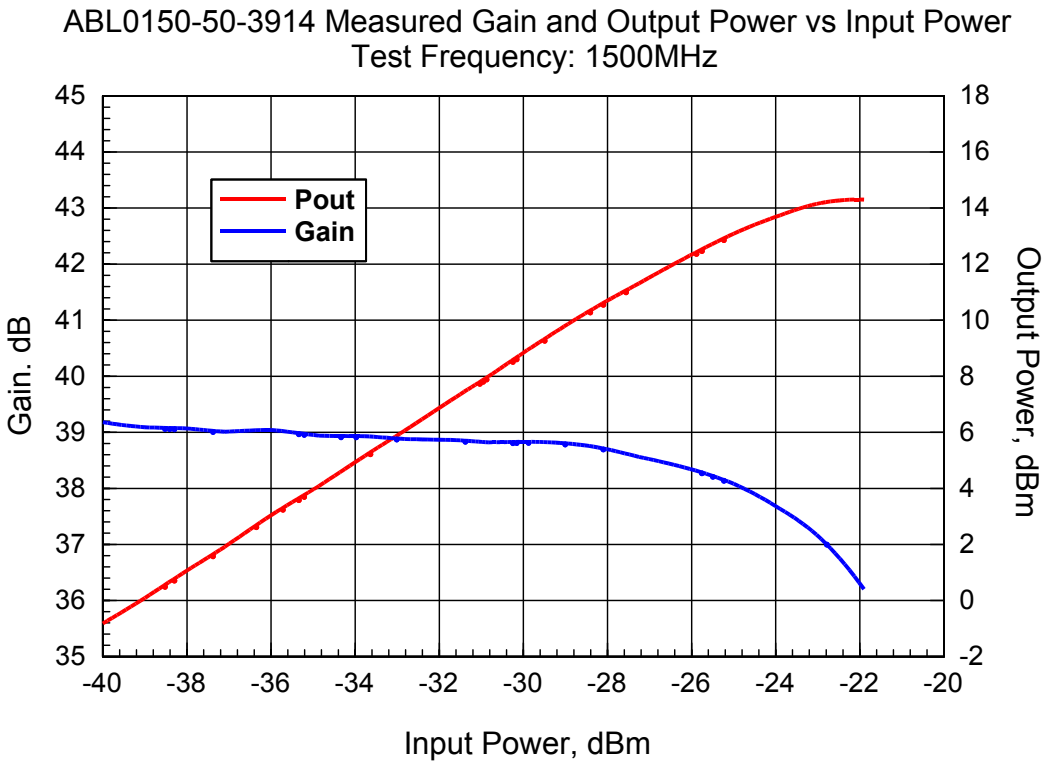
724 South Old Ranch Road, Unit D, Arcadia, CA 91007
Phone: (626) 241-4162, Fax: (626) 602-3101, sales@wenteq.com, www.wenteq.com

ABL0150-50-3914 Measured Noise Figure vs Frequency



ABL0150-50-3914 Measured Gain and Output Power vs Input Power
Test Frequency: 750MHz





Absolute Maximum Ratings

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