

#### Features:

- ▶ Broad band from 60MHz to 1.5GHz,
- Low noise figure, high dynamic range
- Low VSWR, unconditional stable
- SMA female connector I/O
- Low DC consumption, single DC power supply required with built-in DC voltage regulator
- > Operating temperature  $-40 \sim +85^{\circ}$ C, storage temperature  $-55 \sim +85^{\circ}$ C

## **DESCRIPTION:**

ABL0150-02-2212 is a single stage high dynamic range wide band amplifier using enhancement mode pHEMT device. The amplifier provides 22dB of small signal gain with 1.2dB noise figure over frequency range from 30MHz to 1.5GHz. The amplifier requires only a single positive DC power supply. Its built-in DC voltage regulator and reverse polarity protection circuitry allows the amplifier to functional at different DC supply voltages without affecting the RF performances.

#### **SPECIFICATIONS** Units Parameters Minimum Typical Maximum Frequency Range MHz 60 1500 Noise Figure dB 1.2 1.4 Small Signal Gain @25°C dB 19.0 22.0 24.0 Gain flatness +/-1.5 +/-1.75 dB Gain Variation dB +/-0.35 +/-0.5 P-1dB Compression Point dBm +21.0+23.0+27.0**Output IP3** dBm +25.0Input VSWR 1.8:1 1.6:1 Output VSWR 1.5:1 1.7:1 \_ 26.0 **Reverse Isolation** dB -70.0 Spurious dBc °C **Operating Temperature** -40.0 +85.0°C Survival Temperature -55.0 +125.0V DC Voltage +8.0+12.0+15.0DC Supply Current 110 140 170 mA In/Out connectors 50 ohm SMA female Size inches 1.2"x1.0"x0.4"

### Electrical Specifications

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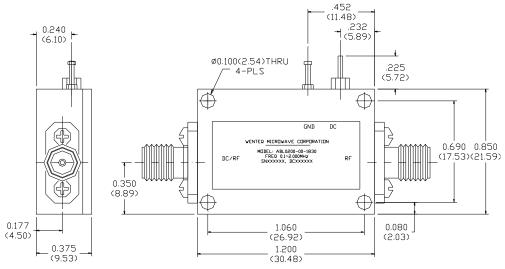


# BROADBAND LOW NOISE AMPLIFIER ABL0150-04-2212

# Typical Test Results



# Mechanical Structure:



Note: All units in inches (mm).

## Absolute Maximum Ratings

DC Voltage	+15V
RF Input Power	+13 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+85°C