



802.11g 250mW Amplifier

12-217

Feature

Designed for extending the range of 2.4GHz 802.11g wireless radio devices, this amplifier is particularly effective when used with Direct Sequence, Frequency Hopping Spread Spectrum, or Orthogonal Frequency Division Multiplexing.

Full output power of 250 mW is achieved with only 5 mW input to the amplifier. This SmartAmp is backwards compatible with 802.11b radios.



Specifications

Operating Range: 2400-2500 MHz
 Operating Mode: Bi directional TDD
 Lightning Protection: Direct DC ground at antenna
 600Watts TVS @ 9 VDC
 DC Surge Protection: 600Watts TVS @ 9 VDC

Mechanical & Environmental

Operating Temperature: -40 °C to +70 °C
 Power: 1.2A @ 9 VDC
 Dimensions
 Amplifier: 4.25" L X 3.25" W X 1.75" H
 DC Injector: 3.5" L X 3" W X 1.18" H
 Weight
 Amplifier: 0.9 lb
 DC injector: 0.4 lb
 RF Connector: N Female
 Automatic Gain Control: No

Transmitter Amplifier

Transmit Gain: **Please see chart below**
 Output Power: 24 dBm @ 7dBm input
 Transmit input power: 1 mW min
 5 mW max

Receiver Amplifier

Receive Gain: 16 dB typical
 Frequency Response: +/- 0.75 dB over operating range
 Noise Figure: 3.5 dB approximate

Product ID vs. Gain:

Product ID	Transmit Gain	Input Signal Typical
12-223	10 dB	14 dBm
12-222	13 dB	11 dBm
12-217	17 dB	7 dBm
12-221	20 dB	4 dBm

Patents Pending

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