



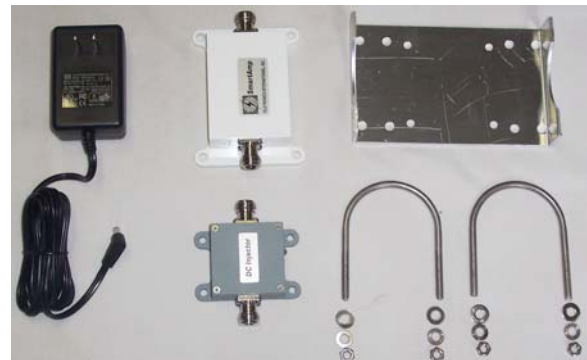
12-205/12-212 2.4GHz 500mW Bi-directional Amplifiers

Data Sheet 051605

Amplifiers are used to extend the range of radio devices by increasing effective transmit and receive gain. They are ideal for low power devices like LAN cards and radio modems. Common applications are to increase the range of an omni antenna being used as a base station or directional antennas to increase on a point-to-point link.

Main Features

- Low noise, bi-directional time division amplifier (802.11b)
- Amplifies both transmit and receive signal
- Automatic gain control maintains output power at 500mW (27dBm)
- By mounting the outdoor amplifier adjacent to the antenna, it is effective in removing the effects of cable losses
- Outdoor unit (Part No. 12-205) includes amplifier, power injector, power supply, mounting plate and U-bolts.
- Indoor unit (Part No. 12-212) includes amplifier and power supply



Electrical Specifications

Frequency	2400-2500MHz
Operating mode	Bi-directional TDD
Transmit gain	22dB max
TX power output	500 mW (27dBm)
TX power input	2mW (3dB) min 200mW (23dB) max
Receiver gain	10-14dB, 12 dB typical
Noise figure	3.5dB typical
Frequency Response	±1 dB
Power consumption	Tx 600mA @ 7.5V Rx 80mA @7.5
Lightning protection	DC ground, Quarter Wave Technology
DC surge protection	650W TVS @7.5VDC



Mechanical Specifications

Connectors	N-Female
Operating temperature	-40°C to 70°C
Total Weight	0.5Kg
Amplifier dimensions	115mmx75mmx28mm

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