



**900MHz or 868MHz
Helium Amplifier**
Item # SHR90309

With Tx bypassed, this bi-directional amplifier features the lowest noise figure LNA and high-speed switching circuit between Tx and Rx.

Designed for Helium and all radios with strong output power that require receive gain but don't need any amplification on the Tx side. The Tx path on this unit is bypassed with minimum signal loss. The Rx side gets a full 15dB of gain, improving the receive sensitivity by many folds. All this while keeping the noise figure at a minimum.

The receive side is fitted with a 902~928MHz or 863~870 MHz bandpass filter.

An extremely highly efficient unit that consumes only 45mA of current at 6V DC.

Salient features include:

- Ultralow noise LNA
- 5Watt max radios can be used.
- CNC machined AL housing
- Sturdy N female connectors



The complete set includes:

- An indoor bi-directional amplifier
- Universal power supply (110~240VAC to 6V DC)
- One cable assembly with RP SMA Male to N Male connectors

Specifications:

Electrical:

Operating Range	902 - 928 MHz (863~870 MHz optional)
Operating Mode	TDD, Time Division duplex,
Radio input Power	5Watts max
Transmit Gain	-1 dB
Transmit input Power	0dB min +/- 1 (trigger point) 37 dB max
Receive Gain	15 dB +/- dB
Switching Speed	400ns
Noise Figure	0.9 dB

LED indicators	Red for Receive Green for Transmit
Power Consumption @ 6V DC	Rx: 45mA,
Operating Temp	-40 °C to + 70 °C

Mechanical:

Dimensions	3.4" x 1.5x 0.9
RF connectors	Type N females
DC input	Via DC Jack 2.5mm
Weight	3.3 Oz (94 grams)

