



- For use with unregulated DC power sources or wide DC voltage of 9V~60V DC.
- Bidirectional Amplifiers for use in 900MHz, 2.4GHz and 5.8GHz ISM bands.
- High speed T/R switching works with latest protocols.
- Military, overseas and Authorized customers only.
- POE capable via two POE ports.

Salient Features

1. **LNA:** The built-in Low Noise Amplifier with signal gain of 18~20 dB improves the receive sensitivity of remote equipment, while keeping noise level very low.
2. **Receive Filtering:** All radio equipment contain filter for receive path. The band pass filter on this amplifier gives added protection against out of band noise.
3. **Enclosure:** CNC machined aluminum housing
4. **Power consumption:** The most efficient 1~2 watt product available anywhere.
5. **Warranty:** All Shireen's products come with 2-year warranty.

Electrical

Item# 90-500

Item# 24-500

Item# 58-500

Operating Range	902~928MHz	2400~2500 MHz	4900~6000MHz
Operating Mode	TDD	TDD	TDD
Peak Transmit Power	33 dBm	30 dBm	33 dBm
Transmit Gain	11 dB	20 dB	20 dB
Transmit input Power	3 dBm min 24 dBm max	3 dBm min 15 dBm max	3 dBm min 15 dBm max
Receive Gain	18 dB	20 dB	20 dB
Noise Figure	< 3 dB	< 3 dB	< 3.5 dB
Power Consumption @ 9VDC	30mA	30mA	35mA
RxPower Consumption @ 9VDC	650mA	800mA	800mA
TxOperating Temp	-40 °C to + 70 °C	-40 °C to + 70 °C	-40 °C to + 70 °C

Mechanical

Dimension:	3.1 x 2.3 x 0.95 in
Enclosure:	CNC Machined
Connectors:	Type N Female
Weight:	7.2 Oz.