



900MHz 2 Watt Outdoor Amplifier

Coax Series

Shireen's latest innovation, World's smallest 2 watt, bi-directional amplifier, in its unique patent pending housing.

Highly Linear amplifier with Max saturated output of 2 Watts

Designed in a completely weatherproof housing for all outdoor applications

Also available in PCB version for OEM customer. Ideal for small housing where space limitations are critical.



Item # 90302

Salient Features:

1. **Transmit Gain:** Utilizing the latest Gallium Arsenide Heterojunction Bipolar Transistor (HBT), the unit provides output power of 33dBm with of 12dB of gain.
2. **LNA:** The built-in Low Noise Amplifier with signal gain of 18 dB improves the receive sensitivity of remote equipment, while keeping noise level very low.
3. **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.
4. **Enclosure:** The unit is housed in patented housing that does not require mounting hardware and seals to a completely watertight unit with a twist of hand. A state of the art unit.
5. **Power consumption:** With only 5 watt of power consumption during max transmit and 0.25W during Rx, this product is the most efficient product available anywhere.
6. **DC Injector:** With only 0.8dB insertion loss, this DC injector is the lowest loss available anywhere. Enclosed in specially designed machined aluminum housing.
7. **Warranty:** All Shireen's products come with 2-year warranty.

The complete set includes:

1. The Outdoor Amplifier,
2. DC injector, and
3. Universal power supply (110~240VAC to 6 V DC)

Specifications:

Electrical:

Operating Range	902 - 928 MHz
Operating Mode	TDD, Time Division duplex,
Transmit Power	33 dBm, 2 Watt
Transmit Gain	12 dB
Transmit input Power	0 dBm min 24 dBm max
Receive Gain	18 dB
Noise Figure	3.5 dB
LED indicators	Red for Receive, Green for Transmit (visible only when cover removed)
Power Consumption	40mA Rx, 0.9A Tx @ 6 VDC
Operating Temp	-40 °C to + 70 °C

Mechanical:

Amplifier

Dimension:	1.1" (28mm) diameter 4.1" (104mm) long
Enclosure:	Weatherproof, machined
Connectors:	Type N male for antenna port and female for radio port
Weight:	10 Oz. (283 g)

DC Injector

Dimension:	1.4" x 3.5" x 1.0" (with Type N female connectors)
Enclosure:	Machined aluminum housing with Anodized finish
Connectors:	Type N female
Weight:	4.7 Oz. (134 g)