

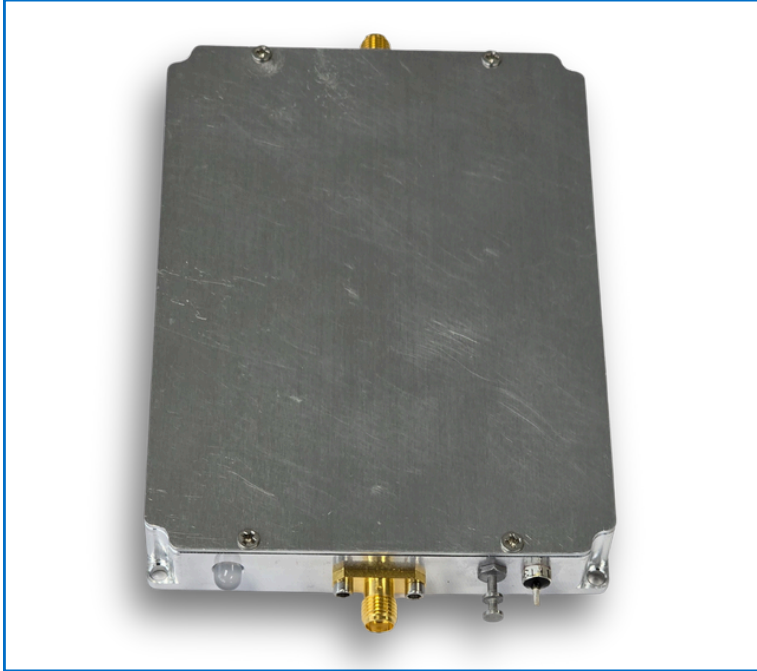


900MHz, 20 Watt Amplifier

OEM Unit
Item # 90223

Field-proven with OFDM and Trimble™ radio, this linear high power bi-directional amplifier is designed for 902~928 MHz radio products. Works equally well with all types of radios. Now offered in low SWaP package for use on UAV/drone etc.

**The unit requires proper mounting on metal for heat sinking.*



SALIENT FEATURES:

- **Transmit Gain:** The unit provides 24 dB of gain.
- **LNA:** The built-in low-noise amplifier with a signal gain of 23 dB with an ultra low noise figure of only 1.8 dB. It improves the receive sensitivity of remote equipment while keeping noise level very low.
- **Receive Filtering:** All radio equipment contains a filter for the receive path. The band-pass filter on this amplifier gives added protection against out-of-band noise.
- **Housing:** Specially designed machined aluminum housing.
- **Warranty:** All Shireen's products come with 2-year warranty.

ELECTRICAL SPECIFICATIONS

Operating Range	902-928MHz
Operating Mode	TDD
Transmit Power	40 dBm, 10 Watt linear, 43 dBm/ 20-Watt, peak
Transmit Gain	24dB Max
Transmit Input Power	0dBm min, 20dBm max
Receive Gain	15dB (+/-1dB)
Noise Figure	1.8dB
LED Indicators	Red for Receive (Default mode) Green for Transmit
Power Consumption	120mA Rx, Tx current varies with input signal @ 28VDC
Operating Temperature	-40°C to +70°C

MECHANICAL SPECIFICATIONS

Dimensions	4.38" x 3.18" x 0.6"
Connectors	SMA Female
Weight	7oz/200g
DC Power	via. Feedthrough

