



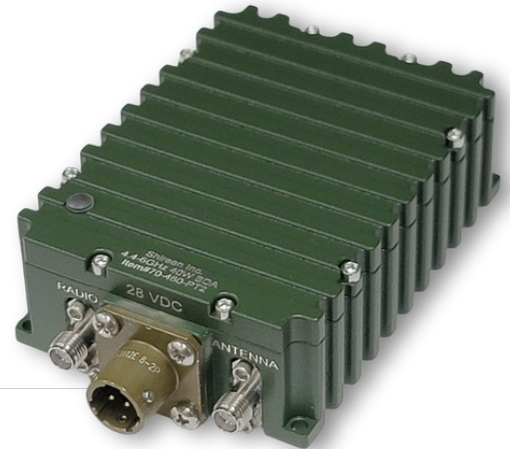
## 4.4~6.0 GHz Bi-directional Amplifier Item # 70-460 40 Watt Output

### Shireen's New Low SWaP Series Bi-directional Amplifiers

This miniature 40 Watt amplifier is the highest power amplifier configured in its size and weight. Weighing in at 7.5Oz enclosed, it comes equipped with the latest rapid switching technology while providing high performance for SDRs and other high-speed modulated, embedded RF, fixed, mobile, and aerial platforms.

- Offered in military bands of 4.4~5GHz and 5~6 GHz
- Manual switching via 3V / 5V TTL
- 26 dB of Tx gain makes it ideal for low output-power radios

Available in OEM packaging for system integrators and developers.



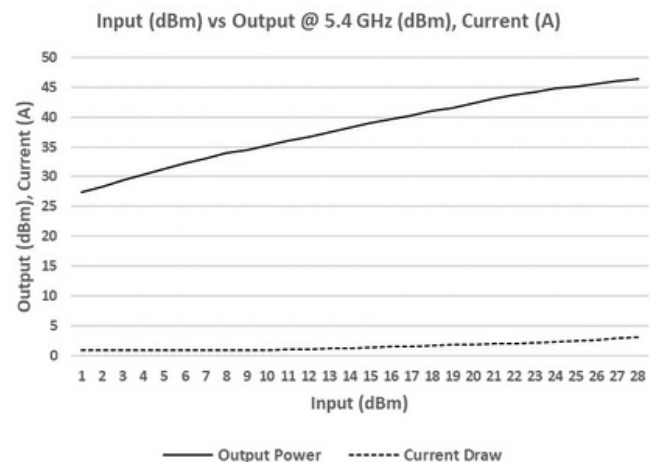
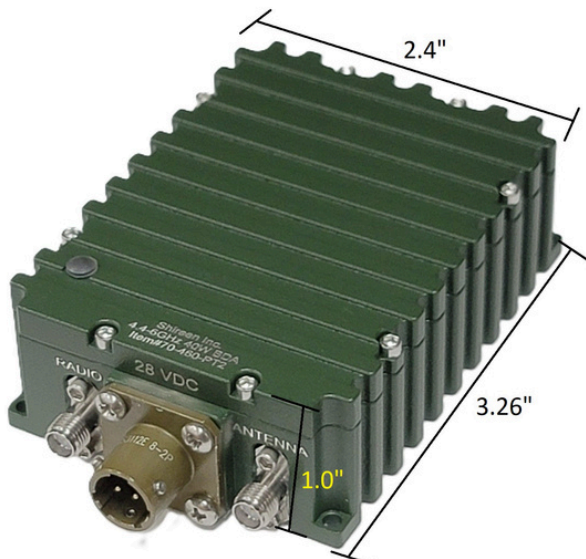
### Specifications

#### Electrical:

Operating Range	4400 – 5000 MHz (version A) 5000 – 6000 MHz (version B)
Operating Mode	TDD (Time Division Duplex)
Transmit Peak Power	46 dBm
Transmit Gain	26 dB (+/-1)
Transmit Input Power	-4 dBm min 28 dBm max
T/R Switching	Auto switching at <1 $\mu$ s, or via manual 3V / 5V TTL
Receive Gain	10 dB (+/- 2)
Noise Figure	<5 dB
LED Indicators	Red for Receive (default mode); Green for Transmit
DC Power	28 VDC
Power Consumption	With 28 VDC, 30 mA Rx, 1.6 A @ 10 W Tx CW, 2.2 A @ 20 W Tx CW, 3.4 A @ 40 W Tx CW
Operating Temperature	-40 °C to + 70 °C (158 °F) with appropriate heatsinking
Temperature Sensor	Optional: As per customer needs

#### Mechanical:

Dimensions	3.26" (82.8mm) x 2.4" (60.7mm) x 1.00" (25.4mm)
Weight	7.5 Oz (212 g)



\*This enclosure is with PT2 Connector  
\*\*Also available in Micro-D Connector