



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 5.5Oz enclosed (without integrated DC-DC converter), 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.



Shown with MD9 Connector
Also Available with PT2 Connector
in Mil Green Enclosure

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 μ 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	10-28 V _{DC} with integrated DC-DC converter; Optional: 28 V _{DC}
Power Consumption	With 28 V _{DC} , 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 per customer needs

Mechanical:

Dimensions	3.1" (78.74mm) x 2.2" (55.9mm) x 0.9" (22.86mm) w/o DC-DC converter 3.26" (82.8mm) x 2.4" (60.7mm) x 1.39" (35.3mm) w/ DC-DC converter
Weight	5.5 Oz (155.9 g) w/o DC-DC converter 10.2 Oz (289.2 g) w/ DC-DC converter

