



## **Eagle** Wide Band Full Duplex Power Amplifier

### FEATURES

- Full duplex operation: Simultaneous receive/transmit
- Frequency range: 700-2600 MHz (Standard)
- Provides Rx/Tx Rejection of over 55 dB for specialized filtering to reduce false alarm rates
- Continuous 5 watt output
- Maintains highly linear output power for multi-tone signals
- Thermal shutdown protection

### DESCRIPTION

The **Eagle** is a wide band full-duplex 5 watt linear amplifier capable of operation with a wide variety of manufacturer's equipment for transmit and receive applications. The unit utilizes a proprietary technique to provide full duplex receive/transmit isolation without tuning. The transmit power amplifier features 50 db gain with a highly linear output that is especially well suited for use with IDEN, GSM, CDMA, and UMTS systems from a variety of companies offering solutions in the support of US law enforcement activities. The amplifier has also been optimized to be effectively utilized with the IDEN signal set, which requires special capabilities to operate efficiently with the QAM modulation scheme in a multi-tone environment.

It also has the added flexibility of providing additional power for Wi-Fi, Bluetooth, and other signals in the 700-2600 MHz frequency range.

The unit ships in a Pelican case, including a high gain directional antenna and a wide band discone antenna for omni directional applications. Additional antennas may be used to optimize operation with push to talk radios and other signals in frequency ranges below the standard cellular frequencies.

This power amplifier offers significant advantages over other amplifiers that are available because of its unique design providing a wideband linear response. This allows for utilization in either European or US cellular frequency sets, ability to use with multiple formats and multiple manufactures reducing inventory and equipment requirements for tactical deployments.

Tactical operations may be optimized by using the **Eagle** coupled with the supplied 6 dB directional antenna to provide greater standoff distance.

### Complementary Products

The **Eagle** provides greatly extended operational standoff distance to other Wireless Innovations products addressing a variety of wireless formats. Please contact us for details.