



## 2.4 GHz Bi Directional RF Amplifier 1 W

**Model # HD18026-1**



Designed for extending the range of 2.4 GHz wireless radio devices, Our Bi-Directional amplifier is particularly effective when used with Direct Sequence or Frequency Hopping Spread Spectrum radio modems. The unit provides the transmit power application as well as receive signal gain. Full output power of 1 W is achieved with only 2.5 mW input, the amplifier attenuates the input signal power and maintains the output power typically at 1 W. Also available in 900 MHz and 5.8 GHz versions and different output power levels

**Operating Frequency Range:** 2400 - 2500 MHz  
**Operating Mode:** Bi-Directional  
**Lightening Protection:** Direct DC ground at antenna

**DC Surge Protection:** 600 W TVS  
@ 12 VDC

### Transmitter Amplifier

Transmit Gain: up to 24 dB for a max  
or 1 W output  
Transmit Input Power: 2 mW min.  
200 mW max.

### Receiver Amplifier

Receive Gain: 14 dB typ.  
Frequency Response:  $\pm 1$  dB over operating range  
Noise Figure: 3.5 dB approx.

### Mechanical and Environmental

Operating Temp: -40 to +70°C  
Power: 7.5 VDC @ 1 A or  
105-240 VAC for power supply (kit provided)

### Dimensions

Amplifier: 4.5" L x 3" W x 1" H  
DC Injector: 3.5" L x 3" W x 1.18" H  
Connectors: N Female

### Weight

Amplifier: 0.5 lbs  
DC Injector: 0.4 lbs

1 Comac Loop Ronkonkoma, NY 11779 Phone: (631) 588-3877 Fax: (631) 588-3879  
Toll Free Number (888) 588-3800

e-mail: [rfamplifiers@hdc.com](mailto:rfamplifiers@hdc.com)

website: [www.rfamplifiers.com](http://www.rfamplifiers.com)