

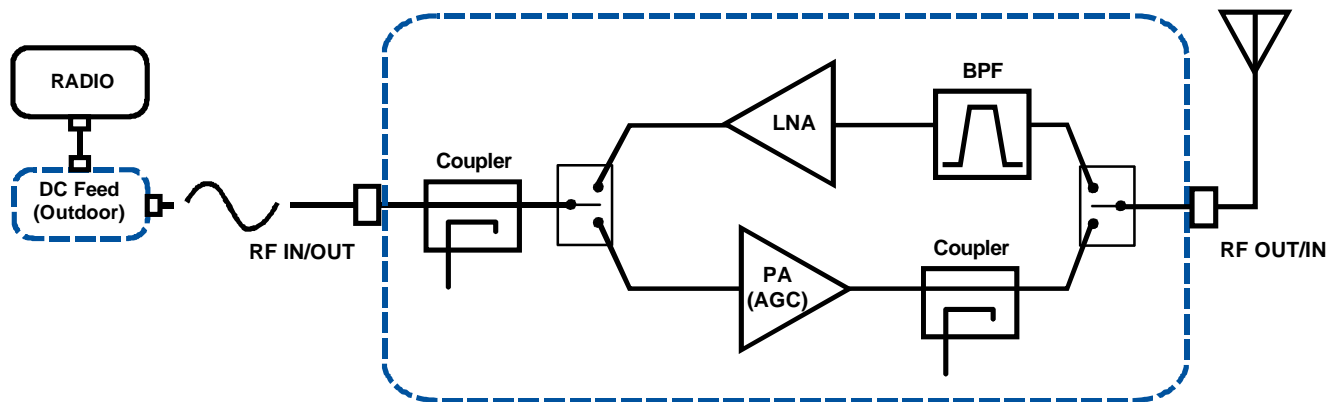


The Antennafier™ 4900-5800 S series Bi-Directional Amplifiers will significantly improve link reliability and operating range by providing Low Noise Amplification during Receive, and Spectrally Clean Power Amplification during Transmit. These amplifiers are housed in a rugged machined aluminum chassis and are available in either indoor or outdoor models..

Featured Highlights:

- Rugged Machined Aluminum Housing
- Automatic Gain Controlled (AGC)
- RF Transmit Power 500mW Avg, 1500mW Peak
- Low Receive Noise Figure
- High Dynamic Range
- 802.11a compatible
- TX/RX LED Indicator
- Automatically senses incoming RF signal

ANTENNAFIER™ 4900-5800 SASERIES BLOCK DIAGRAM



The marketing, sale, and use of power amplification devices are governed by and subject to Part 15 of the Rules and Regulations of the Federal Communications Commission. Such devices may only be sold to parties assembling certified RF transmission systems consisting of an intentional radiator, an external radio frequency power amplifier, and an antenna.

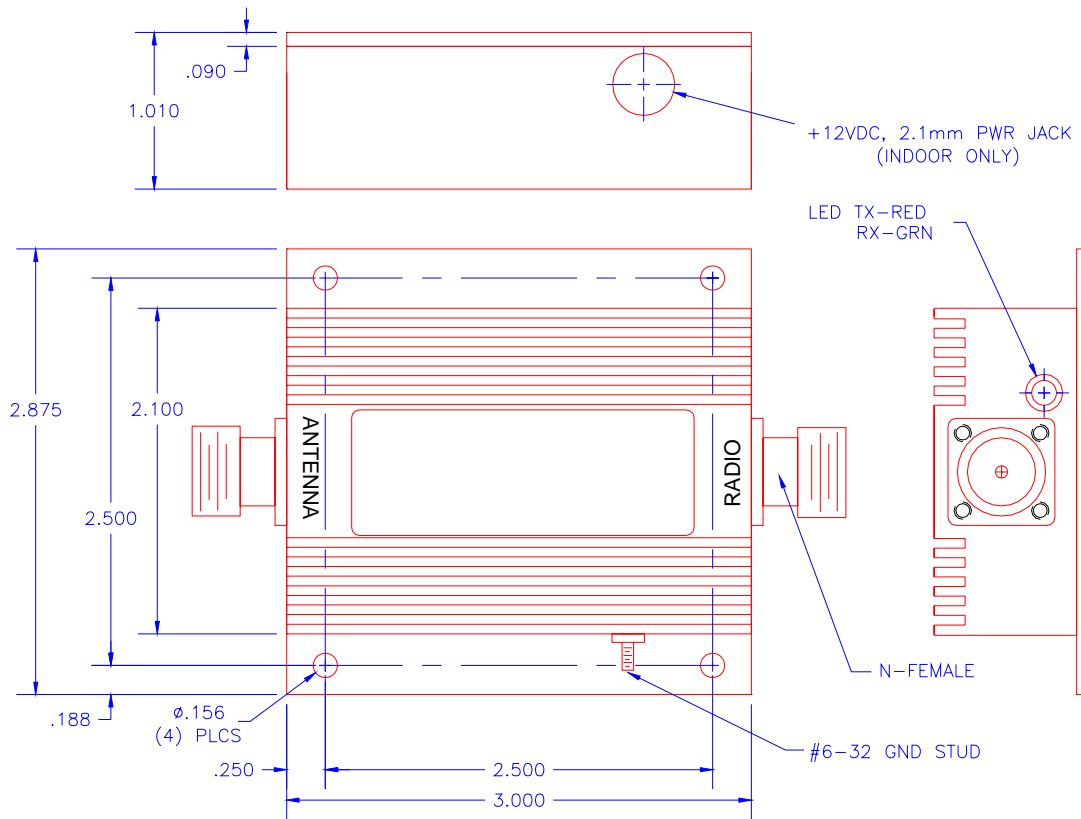
9017 Cincinnati Columbus Rd.
West Chester, Ohio 45069
PH: 513-777-2774

Typical Performance Parameters

Frequency Bands:	Public Safety: 4.940-4.990 GHz U-NII Lower & Middle: 5.15-5.35 GHz CEPT & U-NII Upper: 5.47-5.825 GHz
Supply Voltage:	+12 VDC +/- 5% (Outdoor Version) DC from Center of coax (Indoor Version) DC from Power Jack on side of amp, 2.1mm I.D. (+), 5.5mm O.D. (-)
Receive:	Gain: 10 dB +/- 2 dB (SE Indoor) 12 dB +/- 2 dB (SX Outdoor) Noise Figure: 2.5 dB Supply Current: < 250 mA TX to RX Switching: < 500nSec
Transmit:	AGC Power : Avg Power: 500mW (27dBm) , Pin +5 to +20dBm Peak Power 1500mW (+32dBm) Compression Point: P1dBm = 1500mW (+32dBm) RF Input Power for Turn-On: > 1 dBm Harmonic Rejection: 2fo > 55 dBc, 3fo >70dBc @ Po=+27dBm Supply Current: < 1 A RX to TX Switching: < 500nSec
Maximum Ratings:	Pin (Radio Port) +30 dBm Pin (Antenna Port) +27 dBm
Size:	2.88" x 3.00" x 1.01"
Weight:	< 12 oz
Chassis:	Machined Aluminum with durable black anodize finish CCA is protected with a conformal coating compound
Indicator LED:	Green LED -Receive Mode, Red LED-Transmit Mode
Lightning Suppression:	1/4 wavelength short

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Mechanical Envelope:



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Ordering Guide:

<u>Indoor Series</u>	<u>Freq Band</u>	<u>Description</u>
4900 SAE	4940-4990 GHz Public Safety Band	Includes: Amplifier, Heat Sink, Cable Stays & 12VDC Wall Mount Power Supply.
5300 SAE	5.15-5.25 GHz U-NII Lower Band	
	5.25-5.35 GHz U-NII Middle Band	
5800 SAE	5.47-5.725 GHz CEPT	
	5.725-5.825GHz U-NII Upper Band	

<u>Outdoor Series</u>	<u>Freq Band</u>	<u>Description</u>
4900 SAX	4940-4990 GHz Public Safety Band	For Outdoor applications where DC is sent via center conductor of RF Coax to power Amplifier. Includes: Amplifier, DC injector, mounting bracket with stainless steel hardware, Heat Sink, Cable Stays & 12VDC Wall Mount Power Supply
5300 SAX	5.15-5.25 GHz U-NII Lower Band	
	5.25-5.35 GHz U-NII Middle Band	
5800 SAX	5.47-5.725 GHz CEPT	
	5.725-5.825GHz U-NII Upper Band	

- "U" designator in tail end of Part Number denotes user specified parameters, please call for details.
- All AGC amplifiers can be modified to fixed gain, please call for details.

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