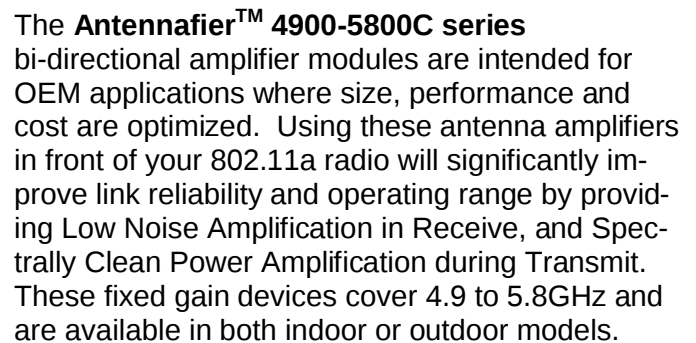


RF LINX
CORPORATION



- High Dynamic Range
- 802.11a compatible
- Low Noise Figure
- +30dBm (1W) P1dB Compression in TX
- TX/RX LED Indicator
- Integrated Heat Sink
- Automatically senses incoming RF signal

The diagram illustrates the signal flow in a radio system. On the left, a dashed blue box contains a 'LAN CARD/ RADIO' and a 'DC FEED (OUTDOOR)'. The LAN card is connected to the DC feed via a small square symbol. The DC feed is connected to the 'RF IN/OUT' port of a larger dashed blue box. Inside this box, the signal path is: 'RF IN/OUT' → 'Coupler' → a switch → 'LNA' (Low Noise Amplifier) → a switch → 'PA' (Power Amplifier) → a switch → 'RF OUT/IN' port. The 'RF OUT/IN' port is connected to an antenna. A legend at the bottom left specifies: 'DC FEED: INDOOR - Via. Connector on PCB' and 'OUTDOOR - DC sent through RF Coax'.

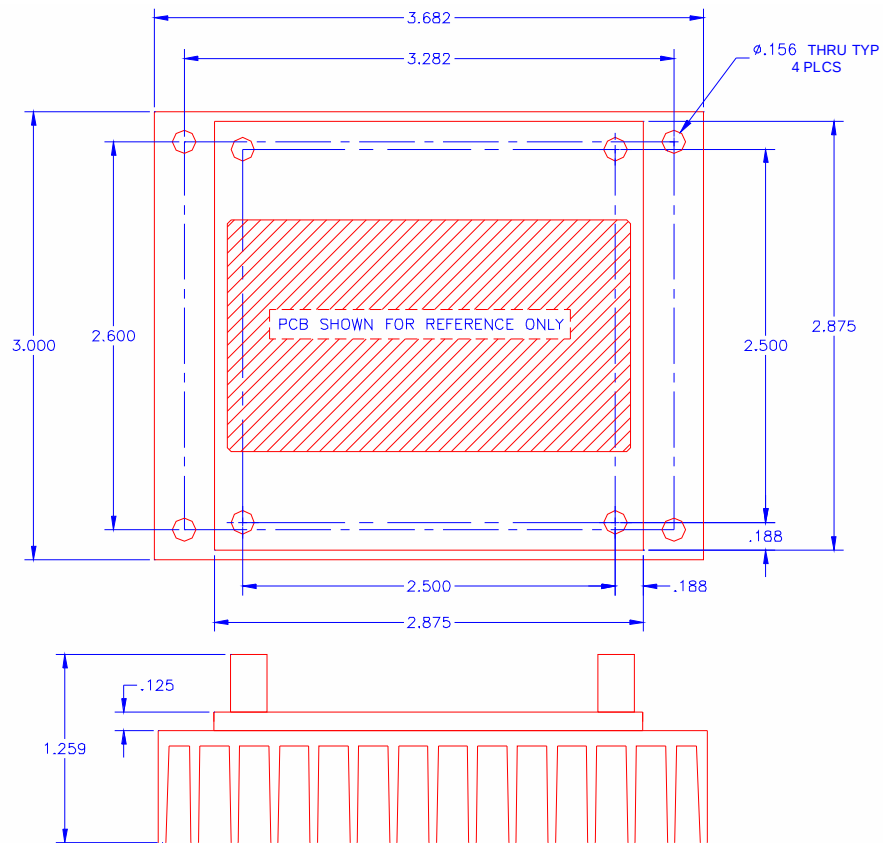
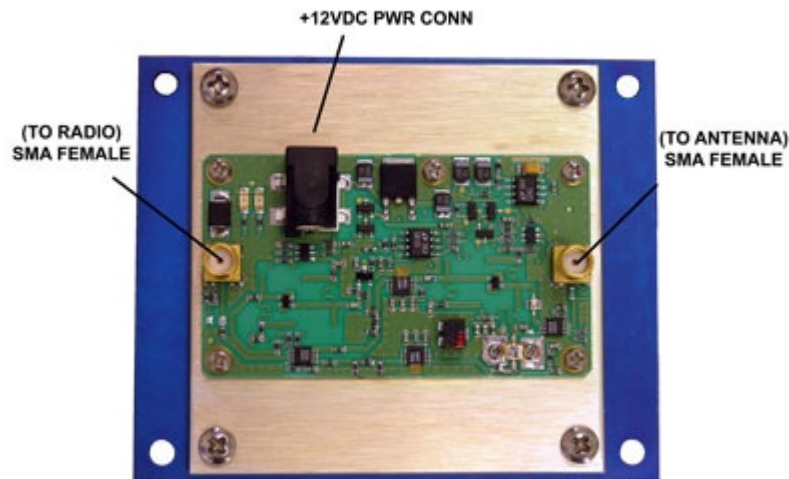
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West Chester, Ohio 45069
PH: 513-777-2774

Typical Performance Parameters

Frequency Bands:	Public Safety:	4.940-4.990 GHz
	U-NII Lower:	5.15-5.25 GHz
	U-NII Middle:	5.25-5.35 GHz
	CEPT:	5.47-5.725 GHz
	U-NII Upper :	5.725-5.825 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 (CE Indoor) 13 dB +/- 2 dB (CX Outdoor)
	Noise Figure:	2.5 dB
	Supply Current:	< 250 mA
	TX to RX Switching:	< 2 µSec
Transmit:	Gain :	9 dB +/- 2 dB (CE Indoor Model) 14 dB +/- 2 dB (CX Outdoor Model)
	P1dB Compression Point	+30dBm (1W) (we recommend 6dB back-off in power for OFDM modulation formats)
	RF Input Power for Turn-On:	> 4 dBm
	Harmonic Rejection:	2fo > 50 dBc, 3fo > 73dBc @ Power Output
	Supply Current:	< 900 mA
	RX to TX Switching:	< 2 µSec
Maximum Ratings:	Pin (Radio Port)	+30 dBm
	Pin (Antenna Port)	+27 dBm
Size / RF Conn:	2.875" x 2.875"x 0.50" (PCB w/aluminum plate)	
Weight:	< 10 oz	
Chassis:	PCB mounted to a 0.090" thick Aluminum Plate that is gold alodine chemical film per MIL C5541 Class 1A	
Indicator LED:	Green—Receive Mode, Red -Transmit Mode	
Lightning Suppression:	1/4 wavelength short	

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Mechanical Footprint and Hookup:



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ANTENNAFIER™ Ordering Guide

<u>Indoor Series</u>	<u>Freq Band</u>	<u>Description</u>
4900 CKE	4940-4990 GHz Public Safety Band	For Indoor applications where amplifier is connected within close proximity to Radio. Includes: Amplifier, Heat Sink, Cable Stays & 12VDC Wall Mount Power Supply.
5200 CKE	5.15-5.25GHz U-NII Lower Band	
5300 CKE	5.25-5.35 GHz U-NII Middle Band	
5600 CKE	5.47-5.725 GHz CEPT	
5800 CKE	5.725-5.825GHz U-NII Upper Band	

<u>Outdoor Series</u>	<u>Freq Band</u>	<u>Description</u>
4900 CKX	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 CKX	5.25-5.35 GHz U-NII Middle Band	
5600 CKX	5.47-5.725 GHz CEPT	
5800 CKX	5.725-5.825GHz U-NII Upper Band	

- Use designator "C" in tail end of Part Number to denote user specified gains, also specify TX and RX gain in dB



Pigtail Cables Sold Separately

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