Features and Benefits



VRA900B

VoIP Integrated Residential Amplifier 8+1P

The Antronix VoIP Residential Amplifier provides a passive VoIP port for reliable voice service, even when power is disrupted to the amplifier. The 9 output port amplifier has 8 amplified output ports with unity gain in the forward and return band plus one passive VoIP output port. This amplifier utilizes the Antronix patented CamPort®. This auto-seizing F-port ensures maximum contact area and reliability for multimedia applications. The all-ports-down configuration allows for ease of installation in a NID enclosure.

Passive VoIP Port

The passive VoIP port provides a passive 4.0 dB loss, even when power is disrupted to maintain critical voice service.

Unity Gain Forward and Return

Active gain in the forward and return band provides unity gain in both directions for ease of installation.

CamPort® Auto-Seizing F-port

Patented auto-seizing brass F-port features a "Cam Activated Mechanism" to provide full contact pressure (> 2000 grams) on the center conductor for maximum reliability.

All-Ports-Down Configuration for NID Enclosures

The all ports facing down configuration provides clean wiring within a NID enclosure.

6 kV Surge Protection

Unique surge protection on all RF ports without the use of arc gaps which may cause high impulse noise during discharge.

• Low Intermodulation Ferrites

Proprietary ferrite blend inhibits re-magnetization of the core due to voltage spikes from impulse noise or lightning. This prevents high-level return carriers from affecting forward path video signals.

Powder Coated Aluminum Housing

Provides the most corrosion resistant protection against salt fog and rust.

Optional Power Inserter for Remote Powering

The amplifier can be powered remotely with a dual isolation compartment power inserter for high AC to RF isolation to prevent ingress.

• PTC Short-Circuit Protected UL Listed Adaptor

Self-resetting circuit protection provides safe protection against short-circuits to minimize maintenance costs.







Electrical Specifications

VoIP Integrated Residential Amplifier VRA900B 8+1P

Forward Specifications	Frequency (MHz)	Specifications
Gain (Outputs 1 – 8) (dB nom)	52-1002	0 ± 1.0
Return Loss (dB min)	52-1002	18
Port to Port Isolaton (dB min)	52-1002	22
Noise Figure (dB max)	52-1002	7.0
RFI Isolation (dB)	5-1002	-120
	Ch. 2	30.0
Group Delay (ns/3.58 MHz)	Ch. 3	10.0
	CH. 4	5.0
	CH. 5 & up	3.0
Distortions ¹		
Composite Triple Beat (dBc)		-75
Composite Second Order (dBc)		-62
Cross Modulation (dBc)		-75
Hum Modulation (dBc)		-80
Return Specifications	Frequency (MHz)	Specifications
Gain (Outputs 1 – 8) (dB nom)	5-42	0 ±1.0
Return Loss (dB min)	5-42	18
Port to Port Isolation (dB min)	5-42	25
Noise Figure (dB max)	5-42	18.0
	5.0-6.5	20.0
Group Delay (ns/1.0 MHz)	6.5-8.0	15.0
	8.0-34	5.0
	34-42	20.0
VoIP Port Specifications	Frequency (MHz)	Specifications
Insertion Loss (dB nom)	5-1002	4.0 ±1.0
Return Loss (dB min)	5-1002	18

Notes:

 +12 dBmV flat input, 79 analog channels from 55 MHz to 550 MHz. Digital channels from 555 MHz to 1002 MHz at 6 dB below the analog channels.



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General		
Nominal Impedance	75 Ω	
F-connector Type	ANSI/SCTE 01 Brass Compliant Sealed CamPort®	
Power Adaptor	12 VDC/500 mA Output, UL, PTC Short-Circuit Protected	
Dimensions/Weight	6.0" W x 3.8" H x 1.4" D / 0.74 lb.	
Environmental		
Pressure Seal	15 psi	
Surge Withstand	6 kV Combo Wave (IEEE C62.41-1991 Cat. B3) on Input Port 6 kV Ring Wave (IEEE C62.41-1991 Cat. A3) on Output Ports and VoIP Port	
Operating Temperature	-40 °C to +60 °C	
Corrosion Resistance	Meets ANSI/SCTE Specification	

Ordering Guide

VRA900B/AC	8 Amplified Unity Gain Outputs + 1 VolP Port. AC Power Adaptor Included	
ARPI-2000	Power Inserter for Remote Powering	
ARAC-12N-5	AC Power Adaptor, 120 VAC/60 Hz Input, 12 VDC Output, 500 mA	

