Features and Benefits

ANTRONIX®

High Split MicroAmp
MRAH1-15-G2

The Antronix MicroAmp provides subscriber premise amplification in a small convenient package. This latest update provides an expanded bandwidth in the forward up to 1218 MHz, and in the return up to 204 MHz. The one output micro-housing allows all ports of the amplifier to be facing down to simplify coaxial cable wiring in NID enclosures or small spaces. Our patented CamPort® provides the only auto-seizing F-port for maximum contact area and reliability for multimedia applications. Ideal for both indoor and outdoor applications, the MRA was engineered to withstand the harshest environmental threats with the capability of enduring repeated high power surges.

- **Micro-Housing**
  Our micro-housing offers the convenience of a small package without sacrificing performance.
- **Port Configuration Ideal for NID Enclosures**
  The micro-housing allows all output ports of the amplifier to be facing down to simplify coaxial cable wiring in NID enclosures or small spaces.
- **CamPort® Auto-Seizing F-port**
  Patented auto-seizing F-port features a "Cam Activated Mechanism" to provide full contact pressure (>2,000 grams) on the center conductor for maximum reliability.
- **3.5 dB Noise Figure**
  Provides clean amplification of weak signals to overcome the poor noise figure in TV tuners and converters.
- **6 kV Combination Wave Surge Protection**
  Unique surge protection on all ports without the use of arc gaps which may cause high impulse noise during discharge.
- **15 psi Sealed SCTE Compliant CamPort®**
  Sealed brass CamPort® prevents water migration.
- **5-204/258-1218 MHz Diplex Filter**
  True 5-204 MHz return band and full 1218 MHz downstream spectrum for more useable bandwidth.
- **Nickel Plated Housing**
  Provides the excellent corrosion resistant protection against salt fog and rust.
- **Powered Locally or Remotely**
  Power the amplifier locally with supplied adaptor or remotely with an optional power inserter.
- **PTC Short-Circuit Protected UL Listed Adaptor**
  Self-resetting circuit protection provides safe protection against short-circuits to minimize maintenance costs.
- **Dual Compartment Power Inserter**
  Provides high AC to RF isolation to minimize ingress.
- **Exceeds all SCTE Standards**
- **5 Year Warranty**
  Applies to amplifier only.

440 Forsgate Drive, Cranbury, NJ 08512 • T: 609.860.0160 • F: 609.860.1687 • antronix.com

Electrical Specifications
MRAH1-15-G2

Forward Specification	Freq (MHz)	1 output
Gain (dB nominal)	258-1002	14.8±1.2
	1002-1218	14.8±1.8
Return Loss (dB)	258-1218	18
Noise Figure (dB)	258-1218	<3.5
AC/RF Isolation (dB)	258-1218	>60
Group Delay (nS/3.58 MHz)	Ch. EIA 30	<30
	Ch. EIA 31	<15
	All Other Ch.	<5.0
Distortions[1]		
Composite Triple Beat (dBc)		-70
Composite Second Order (dBc)		-62
Cross Modulation (dBc)		-70
Hum Modulation (dBc)		-80
Return Specification		
Insertion Loss (dB)	5-102	<1.2
	102-204	<1.8
Return Loss (dB)	5-204	18
Group Delay (nS/1.0 MHz)	5.0-8.0	<20
	8.0-200	<10
	200-204	<30

[1] +10 dBmV flat input, analog channels from 258 MHz to 550 MHz. Digital channels from 550 MHz to 1218 MHz at 6 dB down.

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Specifications
MRAH1-15-G2

General	
Nominal Impedance	75 Ω
RFI	>120 dB
F-connector Type	ANSI/SCTE 01 Compliant Brass Sealed CamPort®
Pressure Seal	15 psi
Surge Withstand	6 kV Combination Wave: IEEE C62.41-1991 Cat. B3 on all RF Ports
Operating Temperature	-40 °C to +60 °C
Warranty	5 Years
Power Adaptor	12 VDC/200 mA Output UL Listed, PTC Short-Circuit Protected, Self-Resetting Adaptor , Efficiency Level VI
Dimensions/Weight (weight is without power supply)	One Output: 3.5″ W x 2.3″ H x 0.8″ D / 0.4 lb.

Ordering Guide

MRAH1-15-G2/AC	1 Output Amplifier, 120 VAC PS
ARPI-2000	Power Inserter for Remote Powering
ARAC-12N-20E6	Power Adaptor, 120 VAC/60 Hz Input, 12 VDC Output , 200 mA, Efficiency Level VI

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