RDA-L1R Drop Amp

1GHz Active Reverse Drop Amp

Complete With Power Supply

In a 2-way cable system one of the challenges is to get reliable return path signals back to the CATV headend from the customers home. The RDA-L1R return path amplifier accomplishes this. It amplifies the return path signals of cable modems, two-way set boxes ect.

Features:

- Bandwidth 5-42MHz/54-1000MHz
- Gain 14dB Forward/10dB Reverse
- RFI Shielding >-120dB
- Micro-strip designed PCB for consistency of specifications and superior total bandwidth characteristics
- Premium ferrites, resistors and capacitors
- Laminated ID label that will not fade
- Zinc housing that is chromated and plated for maximum corrosion resistance
- Precision neoprene sealed "F" ports that are SCTE compliant.
- Low distortion with high level signals
- LED power indicator
- Local or remote powering
- Integrated heavy duty grounding screw
- Modified 360 degree contacts that offers excellent contact between coax and F61. It also has an excellent wiping action
- Concave solder back design assures 100% sealing of back plate to the housing and prevents pinholes
- Excellent specifications including noise figure typically of less than 3.5dB
- Standard models also available (passive return) RDA-L1, RDA-L2 & RDA-L4
- 100% QC at our factory
- CE approved

RMS Communications Inc
11516 Downs Road, Pineville, North Carolina. 28134 USA
Tdl Free: 1-800-223-8312 - Phone (704) 588-4008

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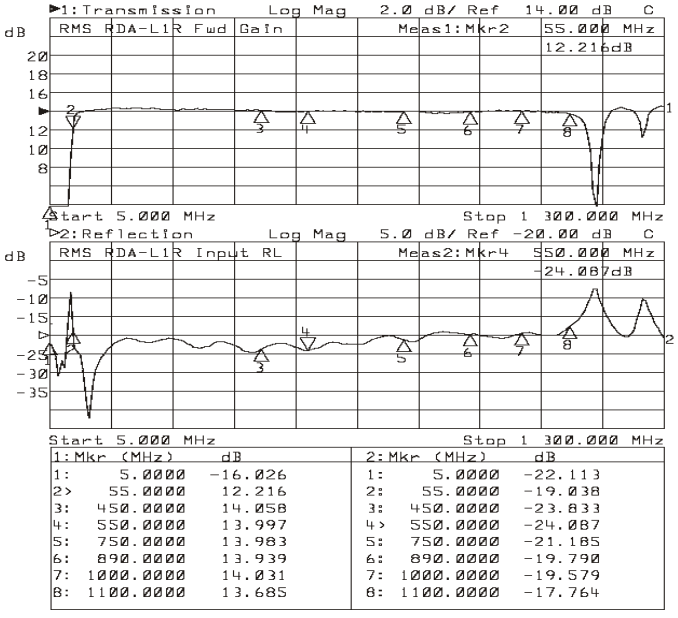
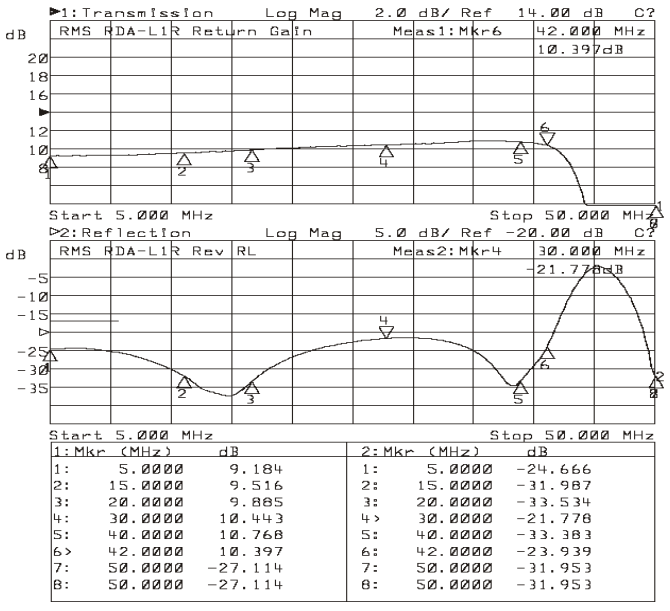
RMS Active Return Amp ITEM	FREQUENCY	Forward Typical	FREQUENCY	Return Typical
RF Device	<----------	Gallium Arsenide (GaAs) IC Used		---------->
Gain	54 - 1GHz	14+/-1.0dB	5 - 42 MHz	10+/- 1.0dB
Flatness	54 - 1GHz	+/-0.8 dB	5 - 42 MHz	+/- 0.6 dB
R.L. (Input/Output)	54 - 750 MHz	-18 dB	5 - 42 MHz	-18 dB
" "	750 MHz - 1GHz	-20 dB	----------	---------
CSO	----------	- 66 dBc	5 - 42 MHz	- 70 dBc
CTB	----------	- 75 dBc	5 - 42 MHz	-73 dBc
X-mod	----------	-75 dBc	5 - 42 MHz	-75 dBc
Noise Figure	54 - 1GHz	3.5dB	5 - 42 MHz	4.9 dB
Rated Output Level (dBuV)	54 - 1GHz	89 @ 60	5 - 42 MHz	120 @ 2 Channels
Group Delay (ns)	54 - 111 MHz	<18/4.43 MHz	5 MHz	<17/1.5 MHz
" "	111 - 1GHz	<4/4.43 MHz	42 MHz	<30/1.5 MHz
Carrier to Noise Ratio @ 70 dBuV	54 - 1GHz	65 dB	----------	----------
Surge Protection	All Ports	6 kV All Ports - C62.41 - 1991 ring wave A3		
Hum modulation	54 - 1GHz	-74 dBc	5 - 42 MHz	-74 dBc
Power rating	<----------	10-24VDC @ 110mA with supplied adapter		---------->

Typical Plots





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