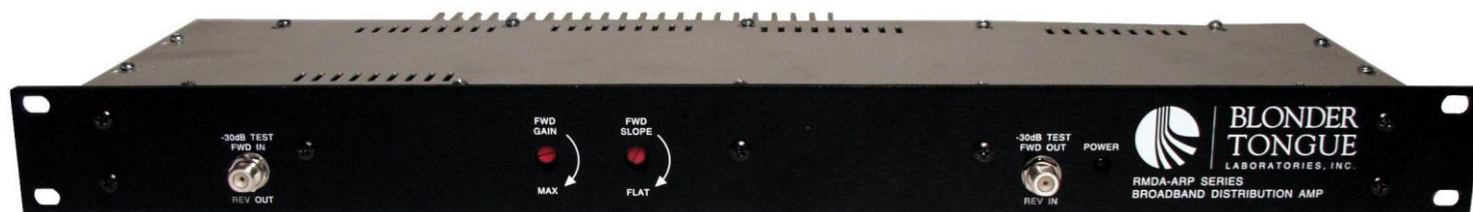


RMDA-1000-42

Rack Mounted Distribution Amplifier

Key Features

- » Forward Path Bandwidth of 54 to 1000 MHz, Gain of 42 dB
- » Hybrid IC Circuitry for High Output with Low Distortion
- » Power Doubling Hybrid Amplifier Technology
- » Front Panel Gain and Slope Controls for Easy Adjustment
- » Exceptional Temperature Stability Range
- » Large Heat Sink for Exceptional Heat Dissipation



Product Overview

The **RMDA-1000-42** is a completely self-contained broadband distribution amplifiers, designed specifically for signal distribution systems requiring the low distortion characteristics only available using hybrid CATV integrated circuits. With a forward bandwidth of 54 to 1000 MHz and a gain of 42 dB, the RMDA-1000-42 is useful in either systems which use a "cable drop" as a signal source or as the launch amplifier in a headend.

The **RMDA-1000-42** features power doubling hybrid amplifier technology for high RF output levels and low distortion. The amplifier provides flat operating gain which can be reduced with a variable attenuator. Gain and Slope controls are located on the front panel for fast set-up and adjustment. The unit is housed in a 1RU aluminum chassis, providing exceptional heat dissipation and allowing operation at high ambient temperatures with no degradation of performance or reliability. Two -30 dB test points at the input and output are provided to permit testing without interruption of service.

Ordering Information

Model	Stock #	Description
RMDA-1000-42	5500P14	Rack-Mounted RF Distribution Amplifier, Single-mode 1000 MHz

RMDA-1000-42

Rack Mounted Distribution Amplifier

PRELIMINARY

SUBJECT TO CHANGE

Specifications

RF Amplifier

Connectors	
Input	1x "F" Female (Rear Panel)
Output	1x "F" Female (Rear Panel)
Input and Output Test	2x "F" Female (Front Panel, 1x Input, 1x Output)
RF Specifications	
Frequency Range	54-1002 MHz
Gain	42 dB
Flatness	±0.75 dB
Gain Control Range	10 dB
Slope Control Range	8 dB
Input Return Loss	16 dB
Output Return Loss	16 dB
Noise Figure	8.5
No. of Channels Loading	152
Output Level	42 dBmV
Composite Triple Beat (CTB)	-60 dB
Composite Second Order (CSO)	-58 dB
Cross Modulation (XMOD)	-58 (remove, keep, or change ?)
Hum Modulation	-70 dB
Impedance (All Ports)	75 Ω
Test Point Level	-30, ±2 dB

General

Dimensions (W x H x D)	19.0 x 1.75 x 6.25 in (483 x 45 x 159 mm)
Weight	5.75 lbs (2.61 kg)
Power	117 VAC, 60 Hz
Power Consumption	28 W
Operating Temp.	-4 to 140 °F (-20 to 60 °C)
Number of Hybrids	2
Hybrid Technology	Power Doubling

Monitoring and Control

Local Monitoring	1x Power LED (Green, Front Panel)
Local Control	1x Slope Control (Front Panel) 1x Gain Control (Front Panel)