

RMDA 1000-42P

RACK MOUNT 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 through Large Heat Sink Design
- » Made in the USA

PRODUCT OVERVIEW

The **RMDA-1000-42P** are 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 amplifier is useful in either systems which use a "cable drop" as a signal source or as the launch amplifier in a headend.

The **RMDA-1000-42P** 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 1000-42P	5500P14	Rack Mounted Distribution Amplifier - 42 dB, 54-1000 MHz, Power Doubling

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SPECIFICATIONS



RF AMPLIFIER	
CONNECTORS	
Input	1x "F" Female (Rear Panel)
Output	1x "F" Female (Rear Panel)
Test (In/Out)	2x "F" Female (Front Panel, 1x Input, 1x Output)
RF FORWARD PATH	
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 dB
No. of Channels Loading	152
Output Level	34/42 dBmV
Composite Triple Beat (CTB)	-60 dB
Composite Second Order (CSO)	-58 dB
Hum Modulation	-70 dB 75
Impedance (All Ports)	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 44 x 159 mm)
Weight	5.75 lbs (2.61 kg)
Power Requirements	110/VAC, 0.9/0.45A, 60 Hz 25.2 W
Operating Temp.	-4 to 140 °F (-20 to 60 °C)
Number of Hybrids	2
Hybrid Technology	Power Doubling
MONITOR AND CONTROL	
Local Monitoring	1x Power LED (Green, Front Panel)
Local Control	1x Slope Control (Front Panel) 1x Gain Control (Front Panel)