

Rack-Mount Two-Way Distribution Amplifiers

RMDA-ARP



Features & Benefits

- 860 MHz Push Pull Hybrid Technology
- 5-40 MHz Return Path, Field Selectable Active/Passive Operation
- Built-in Variable Gain and Slope Controls
- Optional Plug-in Forward Equalizer and Attenuator
- Optional Plug-in Reverse Attenuator

The RMDA-ARP (active return path) are rack mounted 2-way broadband distribution amplifiers. Utilizing push-pull hybrid amplifier technology, they are ideal for MATV, SMATV or CATV applications. The amplifiers have a forward bandwidth of 54 - 860 MHz with a gain of 30 dB. The reverse path of 5-40 MHz is field configurable for active or passive operation.

The RMDA-ARP amplifier has built-in variable gain controls on both the forward and reverse paths. A forward path variable slope control is provided inter-stage as is the variable gain control. Additionally, a fixed forward equalizer and forward and reverse attenuator plug-ins can be installed for further signal conditioning at the input to the amplifier. 30 dB back-matched test ports at the input and output are provided for monitoring both forward and reverse signal levels without interrupting service. The amplifier is housed in a 1RU aluminum chassis that provides exceptional heat dissipation.

Specifications

RF	RMDA-86A-30	Return Path
Frequency Range (MHz):	54-860	5-40
Channel Loading:	129	5
Flatness (dB):	±1	±0.5
Gain (dB):	32	22 (Active) -1.5 dB (Passive)
Noise Figure (dB) (a):	8.5	6
Output Level (dBmV):	34/42	+48
Test Port Level (dB):	-30, ± 2	-30, ± 2
Gain Control Range (dB):	10	18
Slope Control Range (dB):	8	-
Composite Triple Beat - CTB (dB) (b):	-58	-66
Composite Second Order - CSO (dB) (b):	-59	-70
Cross Modulation - XMOD (dB) (b):	-58	-60
Hum Modulation (dB):	-70	-65
Impedance - All Ports (Ω):	75	75
Return Loss (dB)		
Input:	14	15
Output:	14	15
Operating Temperature (°C):	-20 to +60	-20 to +60
Power Supply		
117 VAC, 60 Hz:	26 W	-
26 VAC, 60 Hz:	1.0 A	-
Dimensions (W x H x D):	19 x 1.75 x 5.13 in. 483 x 44 x 130 mm	
Weight:	6 lbs. 2.7 kg	
Number Of Hybrids:	2 Fwd, 1 Rev	
Hybrid Technology:	Push-Pull	

Notes

(a) Measured at full gain with 0 dB slope

(b) At specified channel loading and rated output capability

Ordering Information

Model	Stock No.	Description
RMDA-86A-30	5200 83	860 MHz, 30 dB Push-Pull Amp with Active Return Path
Options		
Model	Stock No.	Description
VMI-CEQ8V	9377A-xx	Plug-in Equalizer, 860 MHz, Values 0-20 dB
VMI-AT	9320-xx	Plug-in Attenuator, 1000 MHz, Values 0-18 dB