



DDA5542R DISTRIBUTION AMPLIFIER



DRACOM distribution amplifiers are economically priced, well designed units for indoor use in both residential and commercial buildings where RF signal distribution up to 550 MHz is required. The DDA5542R features a passive return path for signals in the 5 to 36 MHz frequency range. The amplifier incorporates a push-pull, hybrid amplifier. This provides a high quality, low distortion signal for a cable TV drop or the output of a SMATV headend. The DDA5542R also features variable slope compensation. The unit operates from a 24 VDC power supply which is provided. The amplifier circuitry is designed for maximum stability and is housed in a rugged aluminum housing.

- 42 dB forward gain, adjustable, and a passive return path.
- Adjustable slope control for maintaining consistent video quality for all channels in the system.
- Rugged aluminum housing for durability and heat dissipation.
- Input and Output test connections for convenient monitoring of signal levels

DDA5542R Distribution Amplifier Specifications:

Forward Path	
Gain:	42 dB nominal, 40 dB minimum
Gain Adjust Range:	15 dB minimum
Bandwidth:	54 through 550 MHz
Flatness:	± 1.5 dB maximum
Slope Adjust Range:	Flat to greater than 15 dB tilt @ 54 MHz
Noise Figure:	6 dB typical, 7 dB maximum (at maximum gain setting)
Return Loss - Input/Output:	16 dB typical, 14 dB worst case

Output Test Port:	-30 dB nominal
Composite Triple Beat (CTB):	-63 dB typical, -60 dB worst case*
Cross Modulation (XMD):	-65 dB typical, -62 dB worst case*
Composite Second Order (CSO):	-60 dB typical, -57 dB worst case*
* Measured at +44 dBmV per channel with 77 channel loading	
Return Path	
Configuration:	Passive, unity gain.
Frequency Range:	5 to 36 MHz.
Return Loss:	16 dB typical, 14 dB worst case
General	
Amplifier Power Requirements:	24 VDC, 12 W - power supply included
Output Amplifier Type:	Push-Pull Hybrid Amplifier Module
Operating Temperature:	-20 to + 50 degrees Celsius (-4 to +122° Fahrenheit)
Power Supply Power Rating:	Input: 120 VAC, 50/60 Hz, 20 watts
Input Connection:	Molded, 3 wire line USA plug
Output Power Rating:	24 VDC, 700 mA
Connection to Power Supply:	Power Cable with disconnect
Amplifier Housing:	Extruded aluminum
Dimensions:	2.5 inches (64 mm) Height x 5.5 inches (140 mm) Width x 9 inches (229 mm) Length (including connectors)
Shipping Weight:	2.4 lbs. (1.1 kg.) including power supply.

Specifications, price, and availability are subject to change without notice or obligation.