

## Model 6456 (5-200 MHz) Reverse Headend Driver Amplifier



22379

### DESCRIPTION

The Model 6456 Reverse Headend Driver Amplifier is an indoor product designed for use in the headend or hub network. It is housed in a compact (3.25 in. x 4.0 in. x 6.5 in.) chassis that can be attached to an optional pre-drilled P-3 panel for mounting in a standard headend rack. This pre-drilled panel allows access to test points from the front of the headend rack. The push-pull hybrid provides optimal distortion performance at operational output levels.

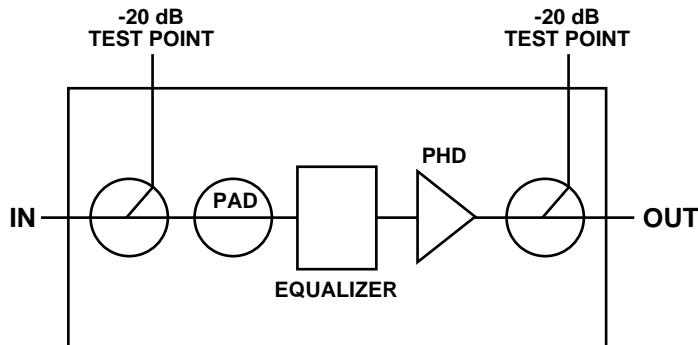
The 5-200 MHz pass band ensures network flexibility for the future and can be used in mid or high split return systems. The Model 6456 can be powered with most standard AC voltages and can be configured to utilize 24 V DC backup powering (jumper selected).

### FEATURES

- Compact size saves precious headend space
- Rack Mountable (optional P-3 panel kit)
- 5-200 MHz pass band
- 20.0 dB minimum full gain
- Input/output directional coupler RF test points (-20 dB)
- Plug-in pad and equalizer
- Power switch with integrated fuse
- Five models with various power requirements provide maximum flexibility
  - 100 V AC
  - 120 V AC
  - 220 V AC
  - 230 V AC
  - 240 V AC
  - 24 V DC, 450 mA (optional powering for all models)



# Reverse Headend Driver Amplifier Model 6456 (5-200 MHz)



## SPECIFICATIONS

### Power

- 100 V AC, 0.20 A
- 120 V AC, 0.20 A
- 220 V AC, 0.10 A
- 240 V AC, 0.10 A
- +24 V DC, 450 mA
- (24 V DC operation is jumper selected)

### Power Supply

- 24 V DC (nominal)

### RF Test Points

- 20 dB to  $\pm 1.0$  dB

### Dimensions

- 3.25 in. x 4.0 in. x 6.5 in.
- (8.25 cm x 10.16 cm x 16.51 cm)

### Operating Temperature (Ambient)

- 32°F to 120°F
- (0°C to 50°C)

Specifications shown reflect typical equipment performance at stated reference levels in the recommended operating configuration. Specifications are based on measurements made in accordance with NCTA Practices for Measurements on Cable Television Systems using standard frequency assignments and are referenced to 68°F (20°C).

## REQUIRED ACCESSORIES

- Plug-in pad, 1 required. Available in 0.5 dB steps from 0 to 20.5 dB. Model PP-\* (\* denotes pad value), specify value.
- Reverse Equalizer (larger pins), 1 required. Available in 1.5 dB steps from 0-12 dB. Model varies with split. Available models are: EQ30T-\*, EQ40T-\*, EQ50T-\* and EQ65T-\* (\*denotes equalizer value), specify value.



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Model Number	6456
Bandwidth	5-200 MHz
Gain (minimum)	20.0 dB
Flatness (frequency response)	$\pm 0.3$ dB
Return Loss	16 dB (minimum)
Noise Figure @ 174 MHz	5.5 dB max.

Distortions <sup>1</sup> (Typical)	
Composite Triple Beat (CTB)	77 dB
Composite Second Order (CSO)	63 dB
Cross Modulation (X-MOD)	68 dB

## ORDERING INFORMATION

Input Voltage	Model Number	Part Number
100 V AC	6456J	536857
120 V AC	6456	536854
220 V AC	6456E	536856
230 V AC	6456I	537998
240 V AC	6456B	536855

NOTE: Order by part number

### Notes:

- Distortions measured at 20° C with 22 analog channels at 44 dBmV zero tilt (5-200 MHz)

## OPTIONAL ACCESSORIES

- Pre-drilled P-3 panel for rack mounting, (includes cable assemblies and connectors – part # 502417)
- 24 V DC power cable – 10 feet (part #467080)

Specifications are subject to change without notice.