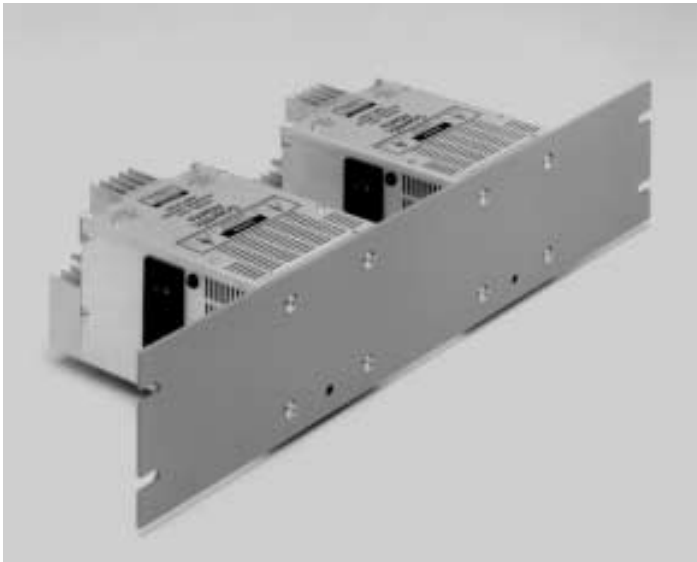


Model 6455 (46-1000 MHz) Headend Driver Amplifier



20046

DESCRIPTION

The Model 6455 Headend Driver Amplifier is an indoor product designed for use in the headend or hub to amplify the RF levels for the input to the laser transmitter while providing RF isolation. It is housed in a compact (3.25 in. x 4.0 in. x 6.5 in.) module that can be attached to a pre-drilled P-3 panel for mounting in a standard headend rack. An optional pre-drilled panel is available that allows access to test points from the front of the headend rack.

The 46-1000 MHz pass band provides the ultimate network flexibility for the future.

The Model 6455 can be powered with most standard AC voltages and can be configured to utilize 24 V DC powering (jumper selected).

FEATURES

- Compact size saves precious headend space
- Rack Mountable (optional P-3 panel kit)
- 46-1000 MHz (1 GHz) pass band
- 16.0 dB minimum full gain
- Output directional coupler RF test point (-20 dB)
- Plug-in pad and equalizer
- Power switch with integrated fuse
- Four models with various power requirements provide maximum flexibility
 - 120 V AC
 - 220 V AC
 - 230 V AC
 - 240 V AC
 - 24 V DC, 450 mA (optional powering for all models)



Model 6455 (46-1000 MHz) Headend Driver Amplifier

SPECIFICATIONS

Power Requirements

- 120 V AC, 0.20 A (Model 6455)
- 220 V AC, 0.10 A (Model 6455E)
- 230 V AC, 0.10 A (Model 6455I)
- 240 V AC, 0.10 A (Model 6455B)
- +24 V DC, 450 mA
(24 V DC operation is jumper selected)

Power Supply

24 V DC (nominal)

RF Test Point

-20 dB to ± 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)

Weight

4 lbs 10 oz. (2.1 kg)

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

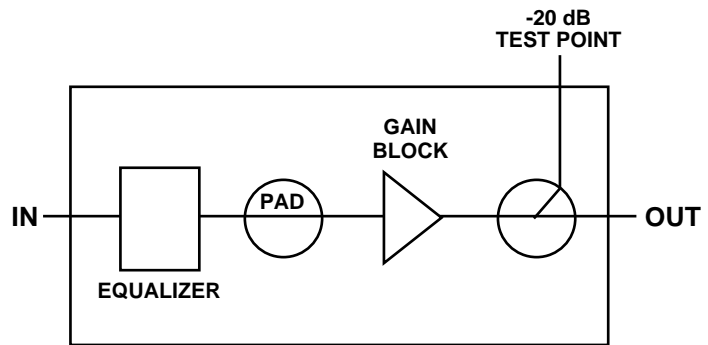
- Plug-in pad, 1 required. Available in 0.5 dB steps from 0 to 20.5 dB. Model PP-* (* denotes pad value), specify value.
- Forward Equalizer, 1 required. Available in 1.5 dB steps from 0 to 27 dB. Model EQ860-* (* denotes equalizer value), specify value (EQ1000 in development)

OPTIONAL ACCESSORIES

- Pre-drilled P-3 panel with front access test points for rack mounting, includes cable assemblies and connectors – part # 502417
- Pre-drilled P-3 panel without test point access – part #381773
- 24 V DC power cable, 10 feet -part #467080

GENERAL SPECIFICATIONS

| Model Number | 6455 |
|-------------------------|----------------|
| Bandwidth | 46-1000 MHz |
| Gain (minimum) | 16.0 dB |
| Flatness (peak to peak) | 1.0 dB maximum |



M0694-01

Typical Distortion¹ – 152 analog NTSC channels

| | Frequency (MHz) | | | |
|-----------|-----------------|--------|--------|--------|
| | 55.25 | 547.25 | 745.25 | 859.25 |
| CTB (dB) | 71.98 | 63.68 | 60.39 | 59.33 |
| CSO (dB) | 72.93 | 65.02 | 65.66 | 61.91 |
| XMOD (dB) | 65.30 | 67.50 | 80.70 | 65.10 |
| C/N | 50.12 | 47.50 | 46.39 | 46.72 |

Input / Output Return Loss

| Frequency Range (MHz) | Minimum Return Loss (dB) |
|-----------------------|--------------------------|
| 46-450 | 15.3 |
| 451-650 | 13.5 |
| 651-750 | 12.6 |
| 751-850 | 11.7 |
| 851-1000 | 10.3 |

Notes:

1. Distortions measured at 20° C at 38 dBmV flat
2. Typical operating level in mid 30's (dBmV)

ORDERING INFORMATION

| Input Voltage | Model Number | Part Number |
|---------------|--------------|-------------|
| 120 V AC | 6455 | 500212 |
| 220 V AC | 6455E | 500213 |
| 230 V AC | 6455I | 541723 |
| 240 V AC | 6455B | 500214 |

NOTE: Order by part number



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