

This is a preliminary datasheet and is subject to change.11/14/2007

Features

- ✗ Wideband 470-810 MHz Driver
- ✗ Ultra Linear for Digital or Analog Application
- ✗ Integrated ALC Circuit RMS power detector
- ✗ High Gain >35 dB



General Description

The DR50U is a Driver Amplifier including active ALC and true RMS power detector for digital applications. This unit can operate as a stand alone unit or can interface directly with the ADP500 for transmitter Forward Power and Reflected Displays. A DB15 connector provides access for remotes off site control.

Specifications

General Specifications

Operating Frequency Range.....	470-810MHz	Operating Temp Range.....	0-50 Deg C
Power Gain.....	45 dB	Primary Power Required.....	110 VAC 2 Amp Typical
Power Output RMS Digital (ATSC)	40W (47 dBm)		
Nominal input range RMS.....	-10 to + 10 dBm		
ALC Sample Level.....	0dBm		
ALC Control Range.....	6dBm Typical		
Linearity 2-Tone test (1MHz).....	<-40 dB		

Mechanical Specifications

RF Connectors

Drive Input.....	BNC Female
ALC Sample.....	BNC Female
RF Output.....	Type N Female

Remote Interface

ADP500.....	DB9 Female
Remote Control.....	DB15 Female

Dimensions: Inches [Millimeters]

Height.....	3.5	[90 mm]
Width.....	19	[480 mm]
Length.....	18.5	[470 mm]

Rack Mounting..... 19 Inch Standard 2 RU Spaces Required

Cooling..... Internal forces air with heat sink air inlet filters are front panel replaceable

Power Supply..... Internal 28 2VDC