

A-7500 75-Watt Multimode Amplifier



Overview

Today's high duty-cycle waveforms and extreme environmental deployment areas demand a level of thermal performance that few amplifiers can meet. The A-7500 is a high-performance amplifier that uses advanced thermal techniques and materials to deliver outstanding thermal performance and ultra-fast processing of modern waveforms.

The A-7500 maintains a wide range of compatibility with today's complex waveforms including SRW, EPLRS, ASCM, SINCGARS, HAVEQUICK, DAMA, IW, and other TDMA waveforms.

Ultralife's significant focus on tactical satellite operations has resulted in the A-7500's great adjacent channel power performance and filtering coupled with a 10dB gain low noise figure. The A-7500 is an ideal solution for SATCOM-on-the-Move (SOTM) applications.

Features

- ▶ **Radio independence through RF sensing**
- ▶ **Contiguous 30-512 MHz operation**
- ▶ **Exceptional thermal performance**
- ▶ **Ultra-fast switching & processing of modern waveforms**
- ▶ **RS-232 control**
- ▶ **Supports SRW, EPLRS ASCM and more**



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A-7500 Technical Specifications

Part No.	A-7500
Size (H x W x D - inches)	3.5 x 5.0 x 8.0
Weight	7.5 lbs
Input Voltage	18-36 VDC
Current Draw	280 watts (typical) 420 watts max
MIL-STD-1275	Compliant
Communications	RS-232 for power/mode/reset/fault status
Operating Temperature	-30° to +60° C
Duty Cycle @ Temperature	Convection cooled: +25° C 100% 2 hours Fan cooled: +60° C 100% 1 hour
TX Power	75 watts - SATCOM port 10-50 watts - LOS port (FM/AM/WB)
TX Power Detection Threshold	2 watts
Input Drive Level	3-8 watts
VSWR Tolerance	Up to 4:1
Waveform Compatibility	SRW, IW EPLRS, ASCM, SINCGARS, HAVEQUICK, DAMA
LNA Gain	10 dB +/- 1 dB
LNA NF	3.2 dB max
RX Insertion Loss (Bypass)	1.2 dB max
RX Insertion Loss (Active)	1.7 dB max
810 Environmentals	Vibration: Wheeled & Tracked Altitude: Storage, 37,000 feet Altitude: Operational, 15,000 feet Humidity: 100% relative Blowing Rain: With connectors mated or covered Reliability: 15,000 hours +55° C, ground mobile
Indicators	Over Temp High VSWR RF Input Overload System Mode: - SAT - SAT & LNA - FM/WB - AM System State: - TX - RX - Bypass



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