

# 20-Watt Amp for Space Borne Operations

## A-322



## Features

- True HAVEQUICK & SINCGARS compatibility
- Supports JTRS waveforms
- DAMA ready
- Operating altitude of 63,000 feet
- MIL-STD 810F & 461E compliant
- Full-rated power across the 30-512 MHz range
- Radio-agnostic

### Overview

The A-322 is a variant of the popular A-320 amplifier. Originally designed specifically for satellite operations, it is also ideal for Unmanned Aerial Vehicles (UAV) in order to provide that important extra boost to signal transmission of target and intel data. The A-322 boasts an operating altitude of 63,000 feet.

### Full-Rated Power

When you power up this amp, be assured that you will get reliable 20-watt ALC controlled amplification across the 30-512 MHz frequency range.

### Seamless DAMA Transition

The A-322, like its companion A-320 amp, is designed to be a solution not only for today, but also for tomorrow. It is DAMA ready.

### Radio Manufacturer Independent

The A-322 is compatible with most field radios used by the military, government agencies and homeland security. This includes, but by no means is limited to, the AN/PRC-148, AN/PRC-152, and RF-5800. When power is turned on, the A-322 automatically senses the frequency. The A-322 is radio-agnostic; it does not have to sense the type of radio.

### Self-Diagnostic

The A-322 monitors antenna performance, BIT and battery status.

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### Technical Specifications:

Part No.	A-322
Size (H x W x D - inches)	1.5 x 3.75 x 5.5
Weight	24 oz.
Frequency Range	30-512 MHz full-spectrum
Input/Output Impedance	50 ohm
RF Input	5 watts (nominal)
RF Output (FM)	20 watts
RF Output (AM)	20 watts PEP/110-512 MHz
RX Path Insertion Loss	<1.5 dB
RX Path VSWR	<2:1
Bypass Path Insertion Loss	<1 dB
Power	18-36 VDC
Power @ Transmit	~65 watts
Power @ Receive	<3.0 watts
SINGGARS/HAVEQUICK	Compatible
RF Connector RAD/ANT	BNC/TNC female
Operating Temperature	-40° to +60° C
Operating Altitude	63,000 ft.
Weather Resistant	MIL-STD 810F submersible 1M for 30 mins.
EMI	MIL-STD 461E
Finish	Black, Anodized