



Overview

The A-2303 is the latest amplifier in Ultralife's long and successful history of RF amplifier development.

The A-2303 amplifier continues the RF sensing technology we were first to develop over 20 years ago. All necessary radio interfacing is accomplished via a single RF cable. From here the amplifier then automatically performs all necessary detection and classification to provide a faithful reproduction of the radio RF with the desired amplification. The A-2303 is compatible with legacy waveforms as well as many modern proprietary and military waveforms.

Optimized for use with low power PRR radios, delivering 20 watts with \sim .75 watt of RF drive power.

Remote On/Off control.

Power for the optional active cooling module is provided on the bottom of the amplifier for seamless integration.

Features

- ► Frequency Range 30-512 MHz
- ► RF output power: 7-20 Watts
- ► Efficient design drawing ~2.25 amps
- ► Excellent thermal performance!
- ► Switchable Receive LNA ~12dB gain
 - <3dB Noise Figure
- ► 10-36 VDC operation for commercial or military vehicle and battery power sources.
- ► Mil-Std harmonic performance
- ► Mil-STD 1275 compliant
- ► Smallest, lightest RF amplifier available.

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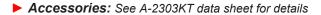
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A-2303 Technical Specifications	
Part No.	A-2303
Size (H x W x D - inches)	1.5 x 3.1 x 5.15in (3.8 x 7.87 x 13.08cm) includes connectors
Weight	19oz. (540g)
Frequency Range	30-512MHz
Input/Output Impedance	50ohm
RF Input	.75 to 5 watts (nominal)
RF Output - FM	20 watts
RF Output - AM	20 watts PEP/116-512 MHz
RX Path Insertion Loss / LNA gain	< 2.0dB (~12dB with LNA "ON")
RX Path VSWR	< 2:1
Bypass Path Insertion Loss	< 0.75dB
Power	10-36Vdc operation
Power @ Transmit	~65 watts
Power @ Receive	< 10 watts
RF Connectors	TNC female
Operating Temperature	-40° to +60° C
Environmental	MIL-STD 810F
ЕМІ	MIL-STD 461
Finish	Tan CERAKOTE®







- Active Cooling Assembly
- Molle Mount
- Vehicle Mount
- Power Cable
 - o xx90 (included)
 - Land Warrior
 - o Blunt cut
- Dual Port Adapter (in development)
 - o 30-88 & 116-512 MHz

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