

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 150W1000

Amplifier Research 150W1000 Solid State RF Amplifier The Amplifier Research 150W1000 is a self-contained air-cooled solid-state broadband amplifier providing 150 W CW minimum from 1 MHz to 1000 MHz. OEM 150W1000 catalog and datasheet materials list instantaneous bandwidth, high gain, mismatch tolerance, and IEEE-488/RS-232 remote interfaces on the W1000 platform. RF susceptibility testing, antenna and component testing, wattmeter calibration, and broadband driver service from 1 MHz to 1000 MHz. Forward and reflected power monitoring class The Amplifier Research 150W1000 is a self-contained air-cooled solid-state broadband amplifier providing 150 W CW minimum from 1 MHz to 1000 MHz. OEM 150W1000 catalog and datasheet materials list instantaneous bandwidth, high gain, mismatch tolerance, and IEEE-488/RS-232 remote interfaces on the W1000 platform. RF susceptibility testing, antenna and component testing, wattmeter calibration, and broadband driver service from 1 MHz to 1000 MHz. Forward and reflected power monitoring class Safety interlock rear panel connector class



MODEL

**Amplifier Research
150W1000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

150W1000

LISTING

<https://aumictechlabs.com/products/150w1000-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research 150W1000 is a solid-state, air-cooled broadband RF power amplifier engineered for high gain, linearity, and stability across demanding test environments. Operating

instantaneously from 80 MHz to 1000 MHz, it delivers 150 watts minimum output power with exceptional mismatch tolerance - operating without damage or oscillation into any combination of source and load impedances. This capability makes it ideal for EMC compliance testing where loads may include open and short circuits. The amplifier accepts AM, FM, and pulse modulation, with internal/external automatic level control (ALC) for precision output regulation. A Digital Control Panel (DCP) provides both local and remote operation with comprehensive status reporting and 18 dB minimum continuous gain adjustment across 4096 remote steps.

Technical Specifications

Frequency Response	80 MHz to 1000 MHz
instantaneous Output Power	Rated
Power Output:	150 W minimum
Nominal Power @ 3 dB Compression:	140 W
Nominal Power @ 1 dB Compression:	120 W
Reflected Power Limit:	100 W maximum
Gain	Minimum Gain: 52 dB
Gain Flatness:	±1.5 dB typical; ±2.0 dB maximum
Gain Adjustment:	18 dB minimum continuous range; 4096 steps remote

Input Characteristics

Input for Rated Output:	1.0 mW maximum (0 dBm)
Input Impedance:	50 Ω nominal; VSWR 2.0:1 maximum

Overdrive Protection: Beyond 0 dBm

Output Characteristics

Output Impedance:	50 Ω nominal
Linearity & Distortion	Harmonic Distortion: -20 dBc maximum at 100 W
Third Order Intercept (IP3):	58 dBm typical
Noise Figure	8 dB maximum

Key Features

- Unconditional stability into arbitrary source and load impedances
- Modulation transparency for AM, FM, and pulse signals
- Digital Control Panel for local and remote operation
- Input overdrive protection
- 50 Ω matched input and output

Typical Applications

- EMC and compliance testing
- RF test and measurement
- Driver amplification for other RF equipment
- Laboratory RF applications requiring high power and linearity

150W1000 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power	150 watts minimum
Input For Rated Output	1.0 milliwatt maximum
Frequency Response	1 MHz to 1000 MHz instantaneously
Gain At Maximum Setting	52 dB minimum
Gain Adjustment Continuous Range	18 dB minimum class remote stepped
Flatness Class	plus or minus 1.5 to 3.0 dB class by model family sheet
Power Output At Compression Class	see model datasheet P1dB and P3dB rows
Input Impedance	50 ohms, VSWR 2.0:1 maximum class
Output Impedance	50 ohms nominal
Mismatch Tolerance	operates without damage into high VSWR loads class
Modulation Capability	Faithful AM FM pulse reproduction
Harmonic Distortion Class	minus 20 dBc class at rated power family
Remote Interfaces	IEEE-488 and RS-232
RF Connector Class	TypeNfemale class
Cooling	Forced air self contained fans
Form Factor	Portable benchtop or rack amplifier class
Series Family	Amplifier Research 150W1000
Export Classification Class	EAR99 family class
Primary Power Class	universal AC mains auto ranging class
ALC Leveling	available class
Safety Interlock	rear panel interlock class
Push Pull Stages	high power push pull class

150W1000 Specifications

PARAMETER	VALUE
Amplifier Research 150W1000 Solid State RF Amplifier	Overview
Applications	RF susceptibility testing, antenna and component testing, wattmeter calibration, and broadband driver service from 1 MHz to 1000 MHz.
Technical Specifications	Rated Output Power: 150 watts minimum

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Rated Output Power	150 watts minimum
Input For Rated Output	1.0 milliwatt maximum
Frequency Response	1 MHz to 1000 MHz instantaneously
Gain At Maximum Setting	52 dB minimum
Gain Adjustment Continuous Range	18 dB minimum class remote stepped
Flatness Class	plus or minus 1.5 to 3.0 dB class by model family sheet
Power Output At Compression Class	see model datasheet P1dB and P3dB rows
Input Impedance	50 ohms, VSWR 2.0:1 maximum class
Output Impedance	50 ohms nominal
Mismatch Tolerance	operates without damage into high VSWR loads class
Modulation Capability	Faithful AM FM pulse reproduction
Harmonic Distortion Class	minus 20 dBc class at rated power family
Remote Interfaces	IEEE-488 and RS-232
RF Connector Class	TypeNfemale class
Cooling	Forced air self contained fans
Form Factor	Portable benchtop or rack amplifier class
Series Family	Amplifier Research 150W1000
Export Classification Class	EAR99 family class
Primary Power Class	universal AC mains auto ranging class
ALC Leveling	available class
Safety Interlock	rear panel interlock class
Push Pull Stages	high power push pull class
Notes	
Rated power, band, and gain from Amplifier Research 150W1000 OEM catalog/datasheet summaries. Quote the exact configuration sheet for compression flatness mass and primary-power draw; do not assume sibling compression rows.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.