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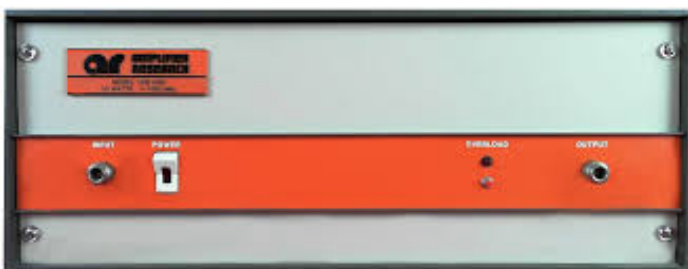
Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 10W1000

Amplifier Research 10W1000B Broadband RF Amplifier The Amplifier Research 10W1000B is a portable self-contained air-cooled solid-state amplifier providing 10 W CW minimum from 500 kHz to 1000 MHz. OEM and manufacturer channel data list 40 dB minimum gain, front-panel gain control, and digital local/remote control via IEEE-488 and RS-232. Antenna and component testing, wattmeter calibration, EMI susceptibility testing, frequency-multiplier driver service, and compact lab RF power source use. Input For Rated Output Class: 1.0 milliwatt maximum class The Amplifier Research 10W1000B is a portable self-contained air-cooled solid-state amplifier providing 10 W CW minimum from 500 kHz to 1000 MHz. OEM and manufacturer channel data list 40 dB minimum gain, front-panel gain control, and digital local/remote control via IEEE-488 and RS-232. Antenna and component testing, wattmeter calibration, EMI susceptibility testing, frequency-multiplier driver service, and compact lab RF power source use. Input For Rated Output Class: 1.0 milliwatt maximum class Protection Over Temperature: Removes DC to RF stages



MODEL

**Amplifier Research
10W1000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

10W1000

LISTING

<https://aumictechlabs.com/products/10w1000-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research 10W1000 is a solid-state, air-cooled broadband RF power amplifier delivering 10 W continuous output across 1 MHz to 1000 MHz. This self-contained instrument

combines Class A push-pull circuitry with 40 dB minimum gain, ± 1.0 dB typical flatness, and unconditional stability across any load impedance. It accepts maximum 1.0 mW input and provides 20 dB continuous gain adjustment.

Technical Specifications

Frequency & Power Frequency response: 1 MHz to 1000 MHz instantaneous Linear output: 10 W (1–900 MHz), 8 W (900–1000 MHz) Maximum output: 22 W Minimum gain: 40 dB with 20 dB adjustment range Flatness: ± 1.0 dB typical, ± 1.5 dB maximum Input & Output Input impedance: 50 Ω , VSWR 2.0:1 maximum Output impedance: 50 Ω nominal Input for rated output: 1.0 mW maximum Reverse isolation: >45 dB RF input overdrive protection via limiting diodes and leveling circuit Environmental & Protection Mismatch tolerance: 100% rated power without foldback; operates without damage under any source or load impedance Over-temperature protection: automatic DC removal to amplifier stages Class of operation: Class A Electrical Power Primary: 115/230 VAC, 50/60 Hz Consumption: 500 W nominal Self-contained regulated power supply

Key Features Push-pull high power stages reduce distortion and improve stability Faithful AM, FM, and pulse modulation reproduction Type N female RF connectors Front panel gain control with optional digital control (IEEE-488/GPIB, RS-232) on select variants Unconditional load stability

Typical Applications EMC and EMI susceptibility testing Communications and RF source applications Antenna and component testing Wattmeter calibration Driver for frequency multipliers and high power amplifiers Magnetic Resonance Imaging RF sourcing

Compatibility & Integration Type N female connectors provide standard RF connectivity. Optional digital control packages support IEEE-488/GPIB, RS-232, USB, and Ethernet on applicable models.

10W1000 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power	10 watts minimum
Frequency Response	500 kHz to 1000 MHz
Gain At Maximum Setting	40 dB minimum
Input For Rated Output Class	1.0 milliwatt maximum class
Cooling	Forced air self contained
Form Factor	Portable benchtop amplifier
Remote Interfaces	IEEE 488 and RS 232
Protection Over Temperature	Removes DC to RF stages
Circuit Topology	Push pull high power stages
Modulation Capability Class	AM FM pulse reproduction class
Mismatch Tolerance Class	Operate without damage into severe VSWR class
Input Impedance Class	50 ohms
Output Impedance Class	50 ohms nominal
RF Connector Class	TypeNfemale typical
Primary Power Class	Universal AC mains class
Series Family	Amplifier Research W1000B broadband
Typical Applications	EMI susceptibility and wattmeter cal
Control	8 bit RISC digital control board class
Status Display	Front panel operate and fault indication
Export Class	Commercial amplifier family
Gain Control	Continuous front panel adjustment
Sweep Drive	Intended for use with RF sweep generators

10W1000 Specifications

PARAMETER	VALUE
Amplifier Research 10W1000B Broadband RF Amplifier	Overview
Key Features	Portable solid state broadband design
Technical Specifications	Rated Output Power: 10 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	
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Notes	
Frequency, rated power, and gain from Amplifier Research 10W1000B product specifications published by manufacturer channels. Compression and mass details vary by configuration; confirm unit datasheet for exact connectors and primary power draw.	

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

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