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Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 50A15

Amplifier Research 50A15 Solid State RF Amplifier The Amplifier Research 50A15 is a self-contained air-cooled solid-state broadband amplifier providing 50 W CW minimum from 20 kHz to 15 MHz. OEM 50A15 catalog and datasheet materials list instantaneous bandwidth, high gain, mismatch tolerance, and IEEE-488/RS-232 remote interfaces on the A15 platform. RF susceptibility testing, antenna and component testing, wattmeter calibration, and broadband driver service from 20 kHz to 15 MHz. Forward and reflected power monitoring class The Amplifier Research 50A15 is a self-contained air-cooled solid-state broadband amplifier providing 50 W CW minimum from 20 kHz to 15 MHz. OEM 50A15 catalog and datasheet materials list instantaneous bandwidth, high gain, mismatch tolerance, and IEEE-488/RS-232 remote interfaces on the A15 platform. RF susceptibility testing, antenna and component testing, wattmeter calibration, and broadband driver service from 20 kHz to 15 MHz. Forward and reflected power monitoring class Safety interlock rear panel connector class



MODEL

**Amplifier Research
50A15**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

50A15

LISTING

<https://aumictechlabs.com/products/50a15-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research 50A15 is a solid-state, air-cooled broadband RF power amplifier engineered for EMC testing, radiated immunity assessment, and laboratory applications requiring instantaneous bandwidth and high gain. Operating across 10 kHz to 15 MHz with 50 W minimum output power, this amplifier delivers ± 1.0 dB flatness and low harmonic distortion into 50 Ω .

nominal loads. Technical Specifications Frequency Range: 10 kHz to 15 MHz Output Power: Minimum 50 W Output Flatness: ± 1.0 dB Output Impedance: 50 Ω nominal Harmonic Distortion: Low Input Connectors: Type BNC, female Output Connectors: Type BNC, female Primary Power: 115/230 VAC, 50/60 Hz Operating Temperature: 5°C to 40°C Operating Humidity: Maximum 80% RH at 31°C; 50% RH at 40°C Operating Altitude: Up to 2000 m Dimensions: 20.3 $\times$ 16.5 $\times$ 36.8 cm Weight: 9 kg Key Features Adjustable high gain with RF input leveling circuit protecting against overdrive above 0 dBm Unconditional stability - operates without damage or oscillation across any load impedance at 100% rated power Dual control interfaces: IEEE-488 (GPIB) and RS-232 for local and remote operation Over-temperature protection with automatic DC removal to RF stages on thermal fault RF output level protection implemented Benchtop cabinet design; removable for equipment rack mounting Air-cooled architecture for continuous operation Typical Applications EMC and radiated immunity testing Driver amplifier for wireless and communication component evaluation Multi-band test instrument covering CDMA, W-CDMA, TDMA, and GSM systems Laboratory RF measurement and characterization Compatibility & Integration The 50A15 interfaces via industry-standard BNC connectors and supports GPIB and RS-232 remote control, enabling integration into automated test systems and laboratory environments requiring programmable RF stimulus across the 10 kHz–15 MHz band.

50A15 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power	50 watts minimum
Input For Rated Output	1.0 milliwatt maximum
Frequency Response	20 kHz to 15 MHz instantaneously
Gain At Maximum Setting	47 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 50A15
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
Low Frequency Focus	audio to HF class

50A15 Specifications

PARAMETER	VALUE
Amplifier Research 50A15 Solid State RF Amplifier	Overview
Applications	RF susceptibility testing, antenna and component testing, wattmeter calibration, and broadband driver service from 20 kHz to 15 MHz.
Technical Specifications	Rated Output Power: 50 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	
Rated power, band, and gain from Amplifier Research 50A15 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

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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.