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Data Sheet
August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 200L

Amplifier Research 200L Broadband RF Amplifier The Amplifier Research 200L isaself-contained air-cooled broadband amplifier combining solid-state low-level stages withavacuum-tube final amplifier. OEM operating manuals describe approximately 200 W linear swept power capability overalow-frequency laboratory band extending from about 1 MHz into the VHF region (commonly cited through approximately 220 MHz on related L-family literature). Laboratory RF susceptibility testing, wattmeter calibration, and general broadband RF power applications whereahybrid solid-state/vacuum-tube amplifier is specified. The Amplifier Research 200L isaself-contained air-cooled broadband amplifier combining solid-state low-level stages withavacuum-tube final amplifier. OEM operating manuals describe approximately 200 W linear swept power capability overalow-frequency laboratory band extending from about 1 MHz into the VHF region (commonly cited through approximately 220 MHz on related L-family literature). Laboratory RF susceptibility testing, wattmeter calibration, and general broadband RF power applications whereahybrid solid-state/vacuum-tube amplifier is specified.

MODEL **Amplifier Research 200L**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **200L**	LISTING **https://aumictechlabs.com/products/200l-3/**

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NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research 200L is a self-contained, air-cooled, solid-state RF amplifier engineered for laboratory and test environments requiring broadband coverage from 1 MHz to 200 MHz. It

delivers 200 W of continuous-wave power and 400 W pulsed output with over 500 W peak pulse capability. The amplifier accepts 1 mW input for rated output, provides 53 dB gain, and maintains ±1.5 dB flatness across its instantaneous bandwidth.It reproduces AM, FM, and pulse modulation faithfully and operates into any load impedance without shutdown or damage - a critical advantage in field testing and measurement scenarios.Technical Specifications Frequency Range: 1 MHz to 200 MHz RF Power Output: 200 W CW / 400 W Pulse / >500 W Peak Pulse Gain: 53 dB Input Power for Rated Output: 1 mW Flatness: ±1.5 dB across instantaneous bandwidth Input Impedance: Standard Type BNC connector Output Impedance: Standard Type N connector Input Power Required: 115 VAC, 208 VAC, or 230 VAC, 50/60 Hz (selectable); 30 A service at 115 VAC; 15 A service at 208/230 VAC Total Power Consumption: Approximately 2000 WKey Features Operates into any load impedance without damage or shutdown - mismatch-tolerant design eliminates load-pull failures Faithful modulation reproduction across AM, FM, and pulse formats Self-contained regulated and unregulated power supplies with primary circuit breaker Lightweight enclosure; considerably less mass than competing amplifiers at equivalent power levels Intuitive front panel with lighted push-button controls for Power, Standby, and Operate modes, plus gain adjustment Optional blanking input and remote control via rear-panel connector (TTL isolation with CP2001; IEEE-488 via CP3000)Typical Applications EMC and EMI susceptibility testing Antenna and RF component characterization Wattmeter calibration Medical device testing Communication systems development Plasma experiments and RF heating Ultrasonic applications

200L Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power Class	200 watts linear swept class
Frequency Response Class	Approximately 1 MHz to 220 MHz class perLfamily literature
Input For Rated Output Class	1.0 milliwatt maximum class
Gain At Maximum Setting Class	High gain vacuum tube final class
Gain Adjustment	Front panel continuous gain control
Input Impedance Class	50 ohms class
Output Impedance Class	50 ohms nominal class
Cooling	Forced air self contained fans
Form Factor	Self contained air cooled laboratory cabinet
Circuit Topology	Solid state low level stages with vacuum tube final
Modulation Capability Class	CW and pulsed RF input supported class
Primary Power Class	AC mains laboratory supply class
RF Connector Class	TypeNfemale class
Series Family	Amplifier Research 200L broadband laboratory amplifier
Export Classification Class	Confirm ECCN on unit nameplate
Mismatch Tolerance Class	Operate into specified load VSWR per manual
Blanking Capability Class	Blanking input supported on relatedLmanuals
Power Metering Class	Forward power monitoring class
Protection Class	Over temperature and supply fault indication class
Applications Class	Laboratory RF susceptibility and calibration
Power Class Sibling 150L	150 watts class
Power Class Sibling 500L	500 watts class

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
From Amplifier Research 200L operating and service manual descriptions and L-family OEM literature. Exact warranted band edges and compression figures vary by revision; confirm the nameplate and manual specification table for the specific unit.

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

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