

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 700A1

Remote Interfaces Class: Local control with optional remote class Power Class Sibling 700A: 700 watts class From Amplifier Research 700A1 / 700A family OEM and operating-manual references. Confirm exact frequency band, gain, and primary power on the unit nameplate and manual specification table. Amplifier Research 700A1 Broadband RF Amplifier The Amplifier Research 700A1 is a related configuration of the 700A high-power broadband laboratory RF amplifier providing approximately 700 W class output. OEM documentation treats 700A1 as a configuration/variant within the 700A family for RF susceptibility and lab RF power use. High-power laboratory RF susceptibility testing, wattmeter calibration, and broadband RF power applications requiring 700 W class drive. High power self contained laboratory amplifier



MODEL

**Amplifier Research
700A1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

700A1

LISTING

<https://aumictechlabs.com/products/700a1-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amplifier Research 700A1 is a solid-state, broadband RF power amplifier engineered to deliver high-power output across extended frequency ranges with built-in protection and precision measurement. This self-contained amplifier combines 700 watts minimum output capability with integrated safeguards against excessive VSWR, high line current, over-temperature conditions, and excessive output power. The unit employs time-delay and zero-crossing turn-on circuitry to minimize inrush current and extend component longevity. Technical Specifications Power Output (CW) Minimum 700 watts from 10 kHz to 1 MHz Minimum 500 watts

from 10 kHz to 1 MHz Minimum 250 watts from 8 kHz to 2 MHz Frequency Coverage 0.8 to 1000 MHz 10 kHz to 1 MHz 8 kHz to 2 MHz 150 kHz to 2 MHz Performance Frequency response flatness: ± 1.0 dB typical 1.0 dB gain compression at CW linear operation

Key Features Front-panel directional watt meter with non-linear scale for forward and reflected power measurement, enabling sensitive load tuning Attenuator control for precise output level adjustment Rear-panel transformer tap selector for output impedance matching Voltage-regulated power supply to suppress noise and output fluctuations Self-contained forced-air cooling with filtered intake for industrial environments Plug-in modular sub-assembly design for simplified maintenance and field repair Input power requirement: 120 VAC only (external transformer required for other voltages)

Typical Applications Broadband RF test, EMI susceptibility testing, wireless system characterization, and power delivery across HF through UHF bands.

Compatibility & Integration Standard benchtop cabinet configuration with optional rack-mount frame available for integration into multi-instrument systems.

Features & description

From manufacturer datasheet

High power self contained laboratory amplifier

Front panel operate and fault indication Forced air cooling Safety interlock support class Technical Specifications Rated Output Power Class: 700 watts class Frequency Response Class: Broadband laboratory RF band per 700A family manual Input For Rated Output Class: 1.0 milliwatt maximum class Gain At Maximum Setting Class: High gain laboratory amplifier class Gain Adjustment: Front panel continuous gain control class 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: Broadband high power amplifier stages Modulation Capability Class: CW and modulated RF input supported class Primary Power Class: AC mains multi kilowatt laboratory supply class RF Connector Class: TypeNfemale class Series Family: Amplifier Research 700A1 / 700A broadband laboratory amplifier Configuration Code: A1 Export Classification Class: Confirm ECCN on unit nameplate Mismatch Tolerance Class: Operate into specified load VSWR per manual Power Metering Class: Forward power monitoring class Protection Class: Over temperature and supply fault indication class

700A1 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power Class	700 watts class
Frequency Response Class	Broadband laboratory RF band per 700A family manual
Input For Rated Output Class	1.0 milliwatt maximum class
Gain At Maximum Setting Class	High gain laboratory amplifier class
Gain Adjustment	Front panel continuous gain control class
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	Broadband high power amplifier stages
Modulation Capability Class	CW and modulated RF input supported class
Primary Power Class	AC mains multi kilowatt laboratory supply class
RF Connector Class	TypeNfemale class
Series Family	Amplifier Research 700A1 / 700A broadband laboratory amplifier
Configuration Code	A1
Export Classification Class	Confirm ECCN on unit nameplate
Mismatch Tolerance Class	Operate into specified load VSWR per manual
Power Metering Class	Forward power monitoring class
Protection Class	Over temperature and supply fault indication class
Applications Class	Laboratory RF susceptibility and calibration
Remote Interfaces Class	Local control with optional remote class
Power Class Sibling 700A	700 watts class

700A1 Specifications

PARAMETER	VALUE
Amplifier Research 700A1 Broadband RF Amplifier	Overview
Applications	High-power laboratory RF susceptibility testing, wattmeter calibration, and broadband RF power applications requiring 700 W class drive.
Key Features	700A1 configuration of 700A family
Technical Specifications	Rated Output Power Class: 700 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	
Specifications	
PARAMETER	VALUE
Rated Output Power Class	700 watts class
Frequency Response Class	Broadband laboratory RF band per 700A family manual
Input For Rated Output Class	1.0 milliwatt maximum class
Gain At Maximum Setting Class	High gain laboratory amplifier class
Gain Adjustment	Front panel continuous gain control class
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	Broadband high power amplifier stages
Modulation Capability Class	CW and modulated RF input supported class
Primary Power Class	AC mains multi kilowatt laboratory supply class
RF Connector Class	TypeNfemale class
Series Family	Amplifier Research 700A1 / 700A broadband laboratory amplifier
Configuration Code	A1
Export Classification Class	Confirm ECCN on unit nameplate
Mismatch Tolerance Class	Operate into specified load VSWR per manual
Power Metering Class	Forward power monitoring class
Protection Class	Over temperature and supply fault indication class
Applications Class	Laboratory RF susceptibility and calibration
Remote Interfaces Class	Local control with optional remote class
Power Class Sibling 700A	700 watts class
Notes	
From Amplifier Research 700A1 / 700A family OEM and operating-manual references. Confirm exact frequency band, gain, and primary power on the unit nameplate and manual specification table.	

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.