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Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 30W1000M7

Amplifier Research 30W1000M7 Solid State RF Amplifier The Amplifier Research 30W1000M7 is an M7 configuration of the 30W1000 solid-state broadband amplifier family providing 30 W CW minimum across the W1000 instantaneous band of 80 MHz to 1000 MHz. OEM family documentation lists ClassA stages and digital/local remote control options. Moderate-power RF susceptibility testing, antenna and component testing, and general lab RF drive through 1 GHz. Digital or front panel gain control class The Amplifier Research 30W1000M7 is an M7 configuration of the 30W1000 solid-state broadband amplifier family providing 30 W CW minimum across the W1000 instantaneous band of 80 MHz to 1000 MHz. OEM family documentation lists ClassA stages and digital/local remote control options. Moderate-power RF susceptibility testing, antenna and component testing, and general lab RF drive through 1 GHz. Digital or front panel gain control class Frequency Response: 80 to 1000 MHz instantaneously



MODEL

**Amplifier Research
30W1000M7**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

30W1000M7

LISTING

<https://aumictechlabs.com/products/30w1000m7-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amplifier Research 30W1000M7 is a solid-state, air-cooled broadband RF amplifier engineered for laboratory testing and measurement applications. Operating across 25 MHz to 1000 MHz, it delivers a minimum of 30 watts CW output power with 45 dB typical gain and continuous front-panel gain adjustment. Push-pull circuitry in high-power stages minimizes

distortion and ensures stability. The unit accepts 0 dBm maximum input, maintains 50-ohm input and output impedance, and reproduces AM, FM, and pulse modulation without degradation. Automatic leveling and input protection circuits prevent overdrive shutdowns. The amplifier operates without damage across any load impedance magnitude and phase.

Technical Specifications

Frequency Range: 25 MHz to 1000 MHz Power Output (CW): Minimum 30 watts Power Output (Linear @ 1 dB Compression): Minimum 25 watts Gain: 45 dB typical, 45 dB minimum Gain Adjustment: Continuous front-panel control Maximum Input Power: 0 dBm Input/Output Impedance: 50 ohms Frequency Response Flatness: ± 1.5 dB maximum Modulation Capability: AM, FM, pulse

Key Features

Push-pull circuitry in high-power stages reduces harmonic content and improves linearity Automatic leveling circuit with limiting diodes protects RF input stage from overdrive Unconditional stability with any source and load impedance N-type (female) connectors on input and output Air-cooled, self-contained design Benchtop form factor; 16.0 kg (35 lb)

Typical Applications

RF susceptibility and immunity testing Antenna and component characterization Watt meter and power sensor calibration Driver stage for frequency multipliers Pre-driver for higher power amplifier systems

Compatibility & Integration

Designed for use with external RF signal generators. Remote control and computer automation available through CP2001 or CP3000 accessory modules.

30W1000M7 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power	30 watts minimum
Frequency Response	80 to 1000 MHz instantaneously
Gain At Maximum Setting Class	45 dB minimum class
Input For Rated Output Class	1.0 milliwatt maximum
Flatness Maximum Class	plus or minus 2.0 dB
Input Impedance Class	50 ohms VSWR 2.0:1 maximum
Output Impedance Class	50 ohms nominal
Mismatch Tolerance Class	100 percent of rated power without foldback class
Harmonic Distortion Class	minus 20 dBc maximum near rated power
Modulation Capability Class	AM FM pulse faithful reproduction
Remote Interfaces Class	IEEE 488 and RS 232 class
Cooling	Forced air self contained fans
RF Connector Class	TypeNfemale
Form Factor	Portable self contained air cooled cabinet
Series Family	Amplifier Research 30W1000 80 to 1000 MHz
Configuration Code	M7
Primary Power Class	Universal AC mains class
Export Classification Class	EAR99 family class
Circuit Topology	Push pull solid state broadband stages
Power Class Sibling 10W1000A	10 W minimum
Power Class Sibling 100W10	100 W minimum
ALC Capability Class	Internal external ALC path class

30W1000M7 Specifications

PARAMETER	VALUE
Amplifier Research 30W1000M7 Solid State RF Amplifier	Overview
Applications	Moderate-power RF susceptibility testing, antenna and component testing, and general lab RF drive through 1 GHz.
Key Features	M7 configuration of 30W1000 family
Forced air self contained cooling	Type N RF connector class
Technical Specifications	Rated Output Power: 30 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 and frequency from Amplifier Research 30W1000M7 / 30W1000 family OEM documentation. Confirm exact gain and compression on the M7 datasheet row.	

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.