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**Data Sheet**

August 14, 2026

## AMPLIFIER RESEARCH

# Amplifier Research 10W1000M7

Amplifier Research 10W1000M7 Solid State RF Amplifier The Amplifier Research 10W1000M7 is an M7 configuration of the 10W1000 solid-state broadband amplifier providing 10 W CW minimum from 80 MHz to 1000 MHz. OEM family sheets list Class A stages with local gain control and optional remote interfaces. Low-power RF susceptibility testing, antenna and component testing, and wattmeter calibration through 1 GHz. Frequency Response: 80 to 1000 MHz instantaneously The Amplifier Research 10W1000M7 is an M7 configuration of the 10W1000 solid-state broadband amplifier providing 10 W CW minimum from 80 MHz to 1000 MHz. OEM family sheets list Class A stages with local gain control and optional remote interfaces. Low-power RF susceptibility testing, antenna and component testing, and wattmeter calibration through 1 GHz. Frequency Response: 80 to 1000 MHz instantaneously Gain At Maximum Setting Class: 40 dB minimum class



## MODEL

**Amplifier Research  
10W1000M7**

## CALIBRATION

**Available on  
request**

## CONDITION

**Used**

## STATUS

**In stock**

## RFQ / SKU

**10W1000M7**

## LISTING

<https://aumictechlabs.com/products/10w1000m7-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Amplifier Research 10W1000M7 is a Class A solid-state RF amplifier delivering 10 W continuous-wave output across 100 kHz to 1000 MHz with instantaneous bandwidth operation. Designed for laboratory, EMC testing, and communication applications, it requires no band switching or tuning and operates safely under all load conditions, including open and short

circuits. The amplifier combines 40 dB minimum power gain with  $\pm 1.5$  dB maximum flatness and third-order intercept performance of 49 dBm typical.

**Technical Specifications**

Frequency range: 100 kHz to 1000 MHz instantaneous bandwidth  
Output power: 10 W minimum CW; up to 15 W CW; 8 W minimum linear output ( $< 1$  dB compression into 50  $\Omega$ )  
Power gain: 40 dB minimum  
Frequency response flatness:  $\pm 1.5$  dB maximum ( $\pm 1.0$  dB typical)  
Input power for rated output: 1.0 mW maximum  
Input impedance: 50  $\Omega$ , VSWR 2.0:1 maximum  
Output impedance: 50  $\Omega$  nominal  
Harmonic distortion:  $-20$  dBc maximum at 8 W  
Third-order intercept point: 49 dBm typical  
Primary power: 100/110/120/200/208/220/240 Vac  $\pm 5\%$ , 50/60 Hz, single-phase  
Power consumption: 150 W maximum; 225 W nominal  
RF connectors: Type N female (input and output)

**Key Features**

Mismatch tolerance: 100% across any source and load impedance magnitude and phase without damage, foldback, or oscillation  
Modulation tolerance: 100% faithful reproduction of AM, FM, and pulse modulation on input signal  
Push-pull circuitry in high power stages for reduced distortion and enhanced stability  
Forced-air cooling with self-contained fans; air-cooled construction  
Selectable AC voltage operation via internal taps or rear panel switch for 120/240 VAC

**Typical Applications**

Broadband RF and EMI susceptibility testing without band switching  
Antenna and component testing  
Equipment calibration and general laboratory instrumentation  
Driver for frequency multipliers and high power amplifiers  
RF source for magnetic resonance imaging studies  
Sweep, CW, and pulse modulated testing

**Compatibility & Integration**

Type N female connectors support standard 50  $\Omega$  RF systems. Portable, self-contained design enables integration into laboratory benches and test racks.

## 10W1000M7 Characteristics / Specifications

| PARAMETER                     | VALUE                                            |
|-------------------------------|--------------------------------------------------|
| Rated Output Power            | 10 watts minimum                                 |
| Frequency Response            | 80 to 1000 MHz instantaneously                   |
| Gain At Maximum Setting Class | 40 dB minimum class                              |
| Input For Rated Output Class  | 1.0 milliwatt maximum                            |
| Flatness Maximum Class        | plus or minus 1.5 dB class                       |
| Input Impedance Class         | 50 ohms                                          |
| Output Impedance Class        | 50 ohms nominal                                  |
| Mismatch Tolerance Class      | 100 percent of rated power without foldback      |
| Harmonic Distortion Class     | minus 20 dBc maximum near rated power            |
| Modulation Capability Class   | AM FM pulse faithful reproduction                |
| Cooling                       | Forced air self contained fans                   |
| RF Connector Class            | TypeNfemale                                      |
| Form Factor                   | Portable self contained air cooled cabinet       |
| Series Family                 | Amplifier Research 10W1000 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           |
| Remote Interfaces Class       | Local front panel with optional remote bus class |
| Power Class Sibling 10W1000A  | 10 W minimum                                     |
| Power Class Sibling 30W1000M  | 30 W minimum                                     |
| ALC Capability Class          | Gain control leveling class                      |

# 10W1000M7 Specifications

| PARAMETER                                             | VALUE                                                                                                        |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Amplifier Research 10W1000M7 Solid State RF Amplifier | Overview                                                                                                     |
| Applications                                          | Low-power RF susceptibility testing, antenna and component testing, and wattmeter calibration through 1 GHz. |
| Key Features                                          | M7 configuration of 10W1000 family                                                                           |
| Forced air self contained cooling                     | Type N RF connector class                                                                                    |
| 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                                                                                                                                    |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Specifications                                                                                                                                    |                                                  |
| PARAMETER                                                                                                                                         | VALUE                                            |
| Rated Output Power                                                                                                                                | 10 watts minimum                                 |
| Frequency Response                                                                                                                                | 80 to 1000 MHz instantaneously                   |
| Gain At Maximum Setting Class                                                                                                                     | 40 dB minimum class                              |
| Input For Rated Output Class                                                                                                                      | 1.0 milliwatt maximum                            |
| Flatness Maximum Class                                                                                                                            | plus or minus 1.5 dB class                       |
| Input Impedance Class                                                                                                                             | 50 ohms                                          |
| Output Impedance Class                                                                                                                            | 50 ohms nominal                                  |
| Mismatch Tolerance Class                                                                                                                          | 100 percent of rated power without foldback      |
| Harmonic Distortion Class                                                                                                                         | minus 20 dBc maximum near rated power            |
| Modulation Capability Class                                                                                                                       | AM FM pulse faithful reproduction                |
| Cooling                                                                                                                                           | Forced air self contained fans                   |
| RF Connector Class                                                                                                                                | TypeNfemale                                      |
| Form Factor                                                                                                                                       | Portable self contained air cooled cabinet       |
| Series Family                                                                                                                                     | Amplifier Research 10W1000 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           |
| Remote Interfaces Class                                                                                                                           | Local front panel with optional remote bus class |
| Power Class Sibling 10W1000A                                                                                                                      | 10 W minimum                                     |
| Power Class Sibling 30W1000M7                                                                                                                     | 30 W minimum                                     |
| ALC Capability Class                                                                                                                              | Gain control leveling class                      |
| Notes                                                                                                                                             |                                                  |
| Rated power and frequency from Amplifier Research 10W1000M7 OEM family documentation. Confirm RF connector placement on the M7 configuration row. |                                                  |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.