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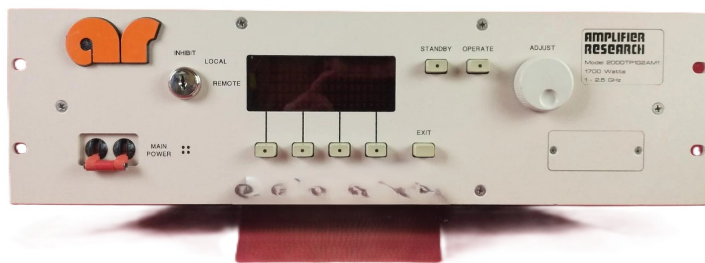
Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 2000TP1G2A

Amplifier Research 2000TP1G2A Pulsed Microwave Amplifier The Amplifier Research 2000TP1G2A is a high-power pulsed RF amplifier providing 2000 W minimum peak pulse power from 1 GHz to 2 GHz for low-duty-factor applications. OEM AR pulsed-amplifier family documentation lists instantaneous bandwidth, high gain, digital forward/reflected power displays, and GPIB remote control typical of the 1 to 2 GHz 2000 W pulse class. EMC RF pulse susceptibility testing, high-peak-power component testing, and pulsed microwave research drive from 1 to 2 GHz. The Amplifier Research 2000TP1G2A is a high-power pulsed RF amplifier providing 2000 W minimum peak pulse power from 1 GHz to 2 GHz for low-duty-factor applications. OEM AR pulsed-amplifier family documentation lists instantaneous bandwidth, high gain, digital forward/reflected power displays, and GPIB remote control typical of the 1 to 2 GHz 2000 W pulse class. EMC RF pulse susceptibility testing, high-peak-power component testing, and pulsed microwave research drive from 1 to 2 GHz. Rated Peak Pulse Power: 2000 watts minimum



MODEL

**Amplifier Research
2000TP1G2A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2000TP1G2A

LISTING

<https://aumictechlabs.com/products/2000tp1g2a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amplifier Research 2000TP1G2A is a solid-state, air-cooled broadband amplifier engineered for radiated susceptibility and EMC testing applications. This self-contained unit delivers a

minimum of 2000 watts across the 1 GHz to 2 GHz band with instantaneous broadband coverage, high gain, and the signal fidelity required for demanding electromagnetic compatibility test environments.

Technical Specifications

Frequency Range: 1 GHz to 2 GHz

Power Output: Minimum 2000 W

Bandwidth: Instantaneous broadband

Architecture: Solid-state

Cooling: Air-cooled, self-contained

RF Input Level: Maximum 0 dBm recommended; Automatic Level Control (ALC) circuit limits maximum RF level

RF Connectors: Standard RF connectors suitable for the 1 GHz to 2 GHz frequency range

Ventilation Clearance: Minimum 10.2 cm (4 inches) on all vented sides

Key Features

- High-gain solid-state amplification across instantaneous 1 GHz to 2 GHz bandwidth
- Automatic Level Control circuit protects against input overdrive
- Rated for continuous operation in laboratory and field test environments
- Air-cooled design eliminates liquid cooling complexity

Typical Applications

- Radiated susceptibility (RS) testing per EMC standards
- Electromagnetic compatibility (EMC) validation and certification
- High-power RF signal amplification in the UHF-to-microwave band

Compatibility & Integration

The 2000TP1G2A integrates into EMC test systems requiring sustained multi-kilowatt output in the 1–2 GHz region. Standard RF connectors and 0 dBm maximum input specification ensure compatibility with conventional test instrumentation. Power supply should provide 1.5 times typical current or 1.2 times maximum current for optimal performance.

2000TP1G2A Characteristics / Specifications

PARAMETER	VALUE
Rated Peak Pulse Power	2000 watts minimum
Frequency Response	1 GHz to 2 GHz instantaneously
Instrument Type	Pulsed microwave power amplifier
Input For Rated Output Class	1.0 milliwatt maximum class
Duty Factor Class	Low duty factor pulsed operation class
Gain Class	High gain broadband pulsed stages class
Remote Interface Class	IEEE 488 GPIB class
RF Sample Ports Class	Forward sample ports class
VSWR Protection Class	Reflected power protection class
Gain Control	Front panel and remote class
Cooling	Forced air self contained fans class
Primary Power Class	Three phase or high VA AC mains class
Form Factor	Cabinet pulsed amplifier
Series Family	Amplifier Research 2000TP1G2A
Export Classification Class	3A999.d family class
Modulation	Pulse gated RF class
Display	Digital forward and reflected power class
Operating Mode Indicators	Standby operate fault class
Mismatch Tolerance Class	Protected against high VSWR class
Weight Class	High power cabinet amplifier weight class
RF Connectors Class	TypeNor waveguide adapter class per config
Status Monitoring	Baseplate and cabinet temperature class

2000TP1G2A Specifications

PARAMETER	VALUE
Amplifier Research 2000TP1G2A Pulsed Microwave Amplifier	Overview
Applications	EMC RF pulse susceptibility testing, high-peak-power component testing, and pulsed microwave research drive from 1 to 2 GHz.
Key Features	2000 W peak pulse class output
Technical Specifications	Rated Peak Pulse Power: 2000 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	
From Amplifier Research 2000TP1G2A / 1 to 2 GHz 2000 W pulsed amplifier OEM family documentation. Confirm pulse width, PRF, and connector type on the unit datasheet revision.	

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.