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Data Sheet
August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 10W1000C

Amplifier Research 10W1000C Solid State RF Amplifier The Amplifier Research 10W1000C isaC-suffix configuration of the 10W1000 solid-state broadband amplifier providing 10 W CW minimum from 80 MHz to 1000 MHz. OEM W1000 family literature lists ClassAsolid-state stages for laboratory RF drive and EMC pretest applications. Low-power RF susceptibility testing, antenna/component testing, and general lab RF power through 1 GHz. Key FeaturesCsuffix 10W1000 family configuration The Amplifier Research 10W1000C isaC-suffix configuration of the 10W1000 solid-state broadband amplifier providing 10 W CW minimum from 80 MHz to 1000 MHz. OEM W1000 family literature lists ClassAsolid-state stages for laboratory RF drive and EMC pretest applications. Low-power RF susceptibility testing, antenna/component testing, and general lab RF power through 1 GHz. Key FeaturesCsuffix 10W1000 family configuration Frequency Response: 80 to 1000 MHz instantaneously

MODEL **Amplifier Research 10W1000C**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **10W1000C**	LISTING **https://aumictechlabs.com/products/10w1000c-3/**

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This unit

The Amplifier Research 10W1000C is a solid-state Class A RF amplifier delivering 10 watts minimum across 500 kHz to 1 GHz with instantaneous bandwidth capability. Built on push-pull circuitry in high-power stages, it achieves 40 dB minimum gain and ±1.0 dB typical flatness. The unit accepts modulated signals (AM/FM/Pulse) and integrates RF input overdrive protection via

limiting diodes and input leveling circuits.Over-temperature protection automatically removes DC voltage to amplifier stages upon cooling system failure, preventing damage. A front-panel digital display monitors operating status and fault conditions including over-temperature, power supply, and amplifier faults.Technical Specifications Power Output: 10 W minimum; 20 W nominal at 3 dB compression; 17 W nominal at 1 dB compression Frequency Range: 500 kHz to 1000 MHz (instantaneous) Gain: 40 dB minimum Flatness: ±1.0 dB typical; ±1.5 dB maximum Input for Rated Output: 1.0 mW maximum Input/Output Impedance: 50 Ω (matched) Modulation: AM, FM, Pulse Mismatch Tolerance: 100% rated power with any load impedance magnitude and phase; no damage or oscillation Cooling: Forced air Dimensions: 50.3 × 15.5 × 37.6 cm Weight: 20.5 kgKey Features Push-pull high-power stage design minimizes distortion and enhances stability RF input limiting diodes and leveling circuit protect against overdrive Automatic thermal shutdown with DC voltage removal on fan failure or blockage Front-panel gain adjustment with local control; remote control via IEEE-488 (GPIB) and RS-232 Digital display shows real-time status and fault diagnostics with reset capability Type N female connectors standard; optional Type N rear-panel connectors availableTypical Applications Continuous frequency coverage from VLF through L-band makes this amplifier suitable for EMC testing, RF sweep generation, and broadband signal conditioning across military and industrial frequency allocations.Compatibility & Integration Compliant with IEC 61000-4-3, MIL-STD-461 (CS114/RS103), RTCA/DO-160 Section 20, and ISO 11451-2. Optional rack-mount configurations and firmware revisions available.

10W1000C 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	C suffix
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 10W1000M	10 W minimum
ALC Capability Class	Gain control leveling class

10W1000C Specifications

PARAMETER	VALUE
Amplifier Research 10W1000C Solid State RF Amplifier	Overview
Applications	Low-power RF susceptibility testing, antenna/component testing, and general lab RF power through 1 GHz.
Key Features	C suffix 10W1000 family configuration
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

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Configuration Code	C suffix
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 10W1000M7	10 W minimum
ALC Capability Class	Gain control leveling class

Notes
Rated power and frequency from Amplifier Research 10W1000C / 10W1000 family OEM documentation. Confirm connector and enclosure options on the C-suffix configuration sheet.

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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