

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research KAW4040

Primary Power Consumption: 2.5 kVA maximum Operating Temperature: minus 10 C to 40 C Remote Interface Optional: IEEE 488.2 and RS 232 From Amplifier Research Model KAW4040 OEM datasheet (DOC 7-98-852-001). Operating Temperature: minus 10 C to 40 C Remote Interface Optional: IEEE 488.2 and RS 232 From Amplifier Research Model KAW4040 OEM datasheet (DOC 7-98-852-001).



MODEL

**Amplifier Research
KAW4040**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

KAW4040

LISTING

<https://aumictechlabs.com/products/kaw4040-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amplifier Research KAW4040 is a 500 W CW RF power amplifier for EMC testing, communications, and research applications. Operating across 200 MHz to 500 MHz instantaneously with optional optimization over 390–410 MHz, it delivers 57 dB minimum gain with ± 2.0 dB flatness unleveled and ± 0.5 dB leveled. The amplifier achieves rated 500 W output from 1.0 mW maximum input, with 30 dB typical gain adjustment range and infinite VSWR mismatch tolerance. Technical Specifications Rated Power Output: 500 W CW Frequency Response: 200 MHz to 500 MHz instantaneously; custom optimization available 390–410 MHz Input for Rated Output: 1.0 mW maximum Power Output @ 1 dB Compression: 500 W Gain: 57 dB minimum; 30 dB typical adjustment range Input/Output Impedance: 50 Ω nominal Gain Flatness: ± 2.0 dB unleveled; ± 0.5 dB leveled Harmonic Distortion: -20 dBc maximum Spurious Outputs: -70 dBc maximum

Mismatch Tolerance: Infinite Primary Power: 187–265 VAC, 47–63 Hz, single-phase; 2.5 kVA typical / 2.8 kVA maximum Operating Temperature: –10 to 40 °C Relative Humidity: 80% to 31 °C, decreasing linearly to 50% at 40 °C Altitude: Up to 2000 mKey Features Automatic Level Control (ALC) with Fast/Slow settings Overdrive protection and VSWR protection Input blanking for standby mode operation Over-temperature protection Modulation capability for AM, FM, and pulse modulation Forward and reflected power metering (0–500 W range) Forced-air cooling with self-contained fansTypical Applications EMC and compliance testing Communications system development RF research and measurement High-power signal generationCompatibility & Integration RF connectors: Type N female Remote control: IEEE 488.2 (24-pin female) and RS-232 (25-pin D-subminiature female) Remote interlock: BNC female 19-inch rack mounting (15¾ inches panel space required) Cabinet: 43" H × 28" W × 28" D; 179 lbs net weight Configurable without cabinet for OEM integration

KAW4040 Characteristics / Specifications

PARAMETER	VALUE
Rated Power Output	500 watts
Input For Rated Output	1.0 mW maximum
Power Output At 1 dB Compression	500 watts minimum
Flatness Unleveled	plus or minus 2.0 dB maximum
Flatness Leveled	plus or minus 0.5 dB
Frequency Response	200 MHz to 500 MHz instantaneously
Gain	57 dB minimum
Gain Adjustment Range Typical	30 dB
Input Impedance	50 ohm nominal
Output Impedance	50 ohm nominal
Mismatch Tolerance	infinite
Harmonic Distortion	minus 20 dBc maximum
Spurious Outputs	minus 70 dBc maximum
Primary Power	187 to 265 VAC 47 to 63 Hz single phase
Primary Power Consumption	2.5 kVA maximum
RF Connectors	TypeNfemale
Operating Temperature	minus 10 C to 40 C
Cooling	Forced air self contained fans
Size Stacked WxHxD	48.3 × 40 × 70 cm
Weight Approx Total	75 kg
Remote Interface Optional	IEEE 488.2 and RS 232
Remote Interlock	BNC female
Front Panel Meter	0 to 500 W forward

KAW4040 Specifications

PARAMETER	VALUE
Amplifier Research KAW4040 RF Power Amplifier	Overview
Applications	UHF susceptibility testing, component and antenna testing, and wattmeter calibration in the 200 to 500 MHz band.
Key Features	500 W CW 200 to 500 MHz
VSWR overtemperature overdrive protection	Optional GPIB RS232 module
Technical Specifications	Rated Power Output: 500 watts
Notes	From Amplifier Research Model KAW4040 OEM datasheet (DOC 7-98-852-001).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 10 C to 40 C
Operating Temperature	minus 10 C to 40 C
Cooling	Forced air self contained fans
Size Stacked WxHxD	48.3 × 40 × 70 cm
Weight Approx Total	75 kg
Remote Interface Optional	IEEE 488.2 and RS 232
Remote Interlock	BNC female
Front Panel Meter	0 to 500 W forward Notes From Amplifier Research Model KAW4040 OEM datasheet (DOC 7-98-852-001).

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 list 500 W minimum at 1 dB compression, plus or minus 2.0 dB unleveled flatness, infinite mismatch tolerance with VSWR protection, and optional IEEE-488.2/RS-232 (KAW4040M1).

Applications

UHF susceptibility testing, component and antenna testing, and wattmeter calibration in the 200 to 500 MHz band.

Key Features

500 W CW 200 to 500 MHz

ALC with fast slow modes

Forward and reflected metering

VSWR overtemperature overdrive protection

Optional GPIB RS232 module

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Rated Power Output	500 watts
Input For Rated Output	1.0 mW maximum
Power Output At 1 dB Compression	500 watts minimum
Flatness Unleveled	plus or minus 2.0 dB maximum
Flatness Leveled	plus or minus 0.5 dB
Frequency Response	200 MHz to 500 MHz instantaneously
Gain	57 dB minimum
Gain Adjustment Range Typical	30 dB
Input Impedance	50 ohm nominal
Output Impedance	50 ohm nominal
Mismatch Tolerance	infinite
Harmonic Distortion	minus 20 dBc maximum
Spurious Outputs	minus 70 dBc maximum
Primary Power	187 to 265 VAC 47 to 63 Hz single phase
Primary Power Consumption	2.5 kVA maximum
RF Connectors	TypeNfemale
Operating Temperature	minus 10 C to 40 C
Cooling	Forced air self contained fans
Size Stacked WxHxD	48.3 x 40 x 70 cm
Weight Approx Total	75 kg

PARAMETER	VALUE
Remote Interface Optional	IEEE 488.2 and RS 232
Remote Interlock	BNC female
Front Panel Meter	0 to 500 W forward

Notes
From Amplifier Research Model KAW4040 OEM datasheet (DOC 7-98-852-001).

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.