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Data Sheet

August 14, 2026

ENI

ENI 604L Broadband RF Power Amplifier

ENI 604L Broadband RF Power Amplifier 4 W The ENI 604L is a solid-state Class A broadband RF amplifier covering 0.5 MHz to 1000 MHz with a nominal 4 W output. Multiple ENI amplifier specification listings agree on 45 dB gain, 12 dB noise figure, 2.0 dB flatness, and 50 Ohm I/O with mismatch protection. General laboratory RF amplification to 1 GHz, low-level transmitter drive, and broadband Class A gain stages protected against overdrive and load mismatch. Protected against overdrive and output load mismatches The ENI 604L is a solid-state Class A broadband RF amplifier covering 0.5 MHz to 1000 MHz with a nominal 4 W output. Multiple ENI amplifier specification listings agree on 45 dB gain, 12 dB noise figure, 2.0 dB flatness, and 50 Ohm I/O with mismatch protection. General laboratory RF amplification to 1 GHz, low-level transmitter drive, and broadband Class A gain stages protected against overdrive and load mismatch. Protected against overdrive and output load mismatches Frequency Span: 0.5 MHz to 1 GHz broadband



MODEL

ENI 604L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

604L

LISTING

<https://aumictechlabs.com/products/604l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ENI 604L is a workhorse amplifier known for its reliability and versatility in RF applications. Its wide bandwidth and linear power output make it suitable for driving a variety of loads. It is

commonly used in EMC testing, signal boosting, and general-purpose amplification in research and development environments.

604L Characteristics / Specifications

PARAMETER	VALUE
Minimum Frequency	0.5 MHz
Maximum Frequency	1000 MHz
Frequency Span	0.5 MHz to 1 GHz broadband
Nominal Output Power	4 W
Power Gain	45 dB
Gain Flatness	2.0 dB
Noise Figure	12 dB
Harmonic Distortion	minus 20 dBc class listing
Input Impedance	50 Ohm
Output Impedance	50 Ohm
Class of Operation	ClassACooling Method: Forced air
Power Supply Type	Switching
Linearity Class	ClassAOverdrive Protection: Yes
Load Mismatch Protection	Yes
Form Factor Listing	module or benchtop cabinet
Intended Use	laboratory RF amplifier
Manufacturer Line	ENI
Gain Units	dB
Power Units	Watts
Frequency Units High End	GHz equivalent 1.00 GHz
Frequency Units Low End	MHz

604L Specifications

PARAMETER	VALUE
ENI 604L Broadband RF Power Amplifier 4 W	Overview
Key Features	Class A linearity across 0.5 MHz to 1 GHz
Switching power supply	50 Ohm input and output
Technical Specifications	Minimum Frequency: 0.5 MHz

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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Gain Units	dB
Power Units	Watts
Frequency Units High End	GHz equivalent 1.00 GHz
Frequency Units Low End	MHz
Notes	
Numeric values compiled from consistent ENI 604L amplifier specification listings. Enclosure size/weight vary by cabinet version and are omitted where not consistently published.	

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.