

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ENI

ENI 5100L Broadband RF Power Amplifier

The ENI 5100L is a solid state RF power amplifier providing 100 W from 1.5 MHz to 400 MHz with 50 dB rated gain. OEM literature notes more than twice the specified Class A power from 1.5 to 200 MHz when maximum power is required, with low harmonic and IMD products and no band switching. NMR spectroscopy, RF transmission, RFI/EMI susceptibility, communications transmitters, and general laboratory RF power from HF through VHF/UHF lower band. Typical gain flatness plus or minus 1.5 dB. No band switching or adjustments across band. Modulation Compatibility: AM FM SSB pulsed and complex. Harmonic Distortion Class: very low. Class A IMD Class: low. IMD products. Ruggedness Class: laboratory RF power amplifier class. Numeric rows from ENI 5100L and E&I 5100L product literature. Confirm exact harmonic and VSWR limits on the datasheet revision shipped with the unit.



MODEL

ENI 5100L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5100L

LISTING

<https://aumictechlabs.com/products/5100I-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ENI 5100L is a workhorse RF power amplifier known for its reliability and versatility. Its wide frequency range and power output make it suitable for EMC testing, medical applications, and general laboratory use. It has a stable and consistent signal for demanding applications.

5100L Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	1.5 MHz to 400 MHz
Rated ClassAPower	100 W
Power Gain Rated	50 dB
Gain Flatness Typical	plus or minus 1.5 dB
Class Of Operation	ClassAExtended Power Note: more than 2x ClassApower 1.5 to 200 MHz when max power required
Band Switching	none required
Input Impedance Class	50 ohm
Output Impedance Class	50 ohm
Modulation Compatibility	AM FM SSB pulsed and complex
Form Factor	benchtop
Topology	solid state
Cooling	forced air class
AC Powered	yes
Harmonic Distortion Class	very low ClassAIMD Class: low IMD products
Series Family	ENI 500 series
Ruggedness Class	laboratory RF power amplifier class
Connectors Class	RF coaxial 50 ohm

5100L Specifications

PARAMETER	VALUE
ENI 5100L RF Power Amplifier 100 W	Overview
Key Features	100 W Class A across full 1.5 to 400 MHz
Technical Specifications	Frequency Range: 1.5 MHz to 400 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	
Specifications	
PARAMETER	VALUE
Frequency Range	1.5 MHz to 400 MHz
Rated ClassAPower	100 W
Power Gain Rated	50 dB
Gain Flatness Typical	plus or minus 1.5 dB
Class Of Operation	ClassAExtended Power Note: more than 2x ClassApower 1.5 to 200 MHz when max power required
Band Switching	none required
Input Impedance Class	50 ohm
Output Impedance Class	50 ohm
Modulation Compatibility	AM FM SSB pulsed and complex
Form Factor	benchtop
Topology	solid state
Cooling	forced air class
AC Powered	yes
Harmonic Distortion Class	very low ClassAIMD Class: low IMD products
Series Family	ENI 500 series
Ruggedness Class	laboratory RF power amplifier class
Connectors Class	RF coaxial 50 ohm
Notes	
Numeric rows from ENI 5100L and E&I 5100L product literature. Confirm exact harmonic and VSWR limits on the datasheet revision shipped with the unit.	

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.