

**Aumictech**

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Data Sheet

August 14, 2026

ENI

ENI 503L Broadband RF Power Amplifier

The ENI / E and I 503L isaClassARF power amplifier covering 2 MHz to 510 MHz with 3 W maximum ClassAlinear output and 40 dB nominal gain. OEM rental/datasheet summaries also list 50 ohm I/O and 10 dB nominal noise figure. RF transmission and RFI/EMI susceptibility, NMR spectroscopy RF drive, and general laboratory UHF/VHF linear amplification at 3 W. Suitable for NMR and EMI lab use per OEM application notes Class of Operation: ClassASeries Family: ENI 500 series Linear Output Class: ClassAFrequency Span Class: VHF through UHF to 510 MHz Output Power Rating Type: maximum ClassAlinear RF Connector Class: 50 ohm amplifier ports Specs fromEand I / ENI 503L specification tables published by rental and OEM-aligned sources. Expand fromafull OEM PDF if harmonic and ruggedness numbers are required.



MODEL

ENI 503L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

503L

LISTING

<https://aumictechlabs.com/products/503l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ENI 503L is a workhorse RF power amplifier known for its reliability and versatility. It has a stable and consistent output power across its frequency range. It can operate with any signal generator.

503L Characteristics / Specifications

PARAMETER	VALUE
Frequency Coverage	2 MHz to 510 MHz
Max ClassA Linear Output	3 W
Gain	40 dB nominal
Input Impedance	50 ohm
Output Impedance	50 ohm
Noise Figure	10 dB nominal
Class of Operation	ClassA Series Family: ENI 500 series
Lower Frequency	2 MHz
Upper Frequency	510 MHz
Power Continuity	3 W ClassA Gain Continuity: 40 dB nominal
Impedance Match Class	50 ohm systems
Application Class NMR	yes per OEM use list
Application Class EMI	yes per OEM use list
Application Class Laboratory	yes
Solid State	yes
Band Switching	none indicated for rated band
Linear Output Class	ClassA Frequency Span Class: VHF through UHF to 510 MHz
Output Power Rating Type	maximum ClassA linear
Noise Figure Continuity	10 dB nominal
RF Connector Class	50 ohm amplifier ports

503L Specifications

PARAMETER	VALUE
ENI 503L RF Power Amplifier 3 W	Overview
Applications	RF transmission and RFI/EMI susceptibility, NMR spectroscopy RF drive, and general laboratory UHF/VHF linear amplification at 3 W.
Key Features	Wide 2 to 510 MHz Class A coverage
Nominal 40 dB gain	Suitable for NMR and EMI lab use per OEM application notes
Technical Specifications	Frequency Coverage: 2 MHz to 510 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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PARAMETER	VALUE
Frequency Coverage	2 MHz to 510 MHz
Max ClassALinear Output	3 W
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Notes	
Specs fromEand I / ENI 503L specification tables published by rental and OEM-aligned sources. Expand fromafull OEM PDF if harmonic and ruggedness numbers are required.	

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.