

**Aumictech**

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Data Sheet

August 14, 2026

ENI

ENI 550L Broadband RF Power Amplifier

The ENI 550L is a solid-state Class A broadband RF power amplifier covering 1.5 to 400 MHz with 50 W linear output and up to 100 W CW/pulse from 1.5 to 220 MHz. OEM specification sheet lists 50 dB gain plus or minus 1.5 dB, Type N connectors, and infinite mismatch protection. RF transmission, RFI/EMI susceptibility, laser modulation, power meter calibration, NMR spectroscopy, and general laboratory RF power. Maximum Power CW And Pulse 1.5 To 220 MHz: 100 W Usable Extended Range Typical: 1 to 420 MHz with reduced power and linearity Input Protection: withstands +13 dBm (1.0 V rms) for all load conditions including short and open AC Power: 115 VAC plus or minus 8% at 12 A or less; 230 VAC plus or minus 8% at 6 A or less; 50/60 Hz single phase Dimensions: 8.5 in H x 15.5 in W x 19.75 in D Weight: 59 lb (26.8 kg) Specs from ENI 550L Power Amplifier specification sheet (1990). E and I later lists 550L as closest equivalent to 325LA; this file documents the original ENI 550L ratings.



MODEL

ENI 550L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

550L

LISTING

<https://aumictechlabs.com/products/550l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ENI 550L is a workhorse RF power amplifier known for its reliability and versatility. Its wide bandwidth and high power output make it suitable, including EMC testing, medical research, and communications. The amplifier features built-in protection circuitry to prevent damage from overvoltage, overcurrent, and overheating.

550L Characteristics / Specifications

PARAMETER	VALUE
Frequency Coverage	1.5 to 400 MHz
Gain	50 dB
Gain Variation	plus or minus 1.5 dB
Maximum ClassA Linear Power	50 W
Maximum Power CW And Pulse 1.5 To 220 MHz	100 W
Usable Extended Range Typical	1 to 420 MHz with reduced power and linearity
Harmonic Distortion At Rated Linear Power	all harmonics more than 23 dB below fundamental
Typical Third Order Intercept	+59 dBm
Noise Figure	12 dB maximum
Input VSWR	1.8:1 maximum
Output VSWR	2.5:1 maximum
Input Impedance	50 ohm
Output Impedance	50 ohm
RF Connectors	TypeNStability: continuous operation into any load or source impedance
Input Protection	withstands +13 dBm (1.0 V rms) for all load conditions including short and open
AC Power	115 VAC plus or minus 8% at 12 A or less; 230 VAC plus or minus 8% at 6 A or less; 50/60 Hz single phase
Dimensions	8.5 inHx 15.5 inWx 19.75 inDWeight: 59 lb (26.8 kg)
Cooling	Forced air
Operating Temperature	0 to 45 C
Rack Mounting	19 inch adaptors provided

550L Specifications

PARAMETER	VALUE
ENI 550L RF Power Amplifier 50 W	Overview
Applications	RF transmission, RFI/EMI susceptibility, laser modulation, power meter calibration, NMR spectroscopy, and general laboratory RF power.
Technical Specifications	Frequency Coverage: 1.5 to 400 MHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 45 C
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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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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.