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Data Sheet

August 14, 2026

ENI

ENI 3100LA Broadband RF Power Amplifier

ENI and I 3100LA RF Power Amplifier 100 W The ENI 3100LA (ENI 3100LA lineage) is a Class A solid-state RF power amplifier covering 250 kHz to 150 MHz with 100 W P1dB and 125 W saturated power per OEM Rev P datasheet. Nominal gain is 50 dB with Type N connectors and forced-air cooling. RFI/EMI susceptibility, HF/VHF transmitter drive, plasma and accelerator RF, and laboratory Class A linear power to 100 W. Infinite VSWR ruggedness with +13 dBm input protection The ENI 3100LA (ENI 3100LA lineage) is a Class A solid-state RF power amplifier covering 250 kHz to 150 MHz with 100 W P1dB and 125 W saturated power per OEM Rev P datasheet. Nominal gain is 50 dB with Type N connectors and forced-air cooling. RFI/EMI susceptibility, HF/VHF transmitter drive, plasma and accelerator RF, and laboratory Class A linear power to 100 W. Infinite VSWR ruggedness with +13 dBm input protection Software overdrive and reverse-power limits



MODEL

ENI 3100LA

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3100LA

LISTING

<https://aumictechlabs.com/products/3100la-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ENI 3100LA is a workhorse RF power amplifier renowned for its reliability and versatility. Operating from 25 kHz to 300 kHz, it has a consistent 100 watts of output power. It features a solid design, capable of driving a variety of loads, and is often found in applications such as

ultrasonic cleaning, induction heating, and general laboratory research. Its solid-state design ensures long-term stability and minimal maintenance.

3100LA Characteristics / Specifications

PARAMETER	VALUE
Class of Operation	ClassA Frequency Coverage: 250 kHz to 150 MHz
Rated Power	100 W P1dB
Saturated Power	125 W
Power Gain	50 dB nominal
Gain Flatness	plus or minus 1.5 dB
Input Power For Rated Pout	1 mW
Input Impedance VSWR	50 ohm / 1.5:1 maximum
Output Impedance VSWR	50 ohm / 2:1 maximum
Harmonic Level	less than minus 25 dBc at 100 W
Ruggedness	infinite to 1 VSWR
Stability	unconditional into any passive load
Input Protection	withstands +13 dBm (1.0 V rms) max without damage
Third Order Intercept	approximately 59 dBm
AC Input	100 to 240 VAC 47 to 63 Hz; 12 A max at 115 VAC; 6.5 A at 240 V
Operating Temperature	0 to 40 C
Cooling	Forced air
Dimensions	5.5 × 18.8 × 21 in (140.27 × 478 with handles x 535 mm)
Weight	35 lb (16 kg)
Connectors	TypeN Software Overdrive Limit: 150 W
Software Reverse Power Limit	110 W
RF Input Signal Types	AM FM SSB Pulsed

3100LA Specifications

PARAMETER	VALUE
ENI E and I 3100LA RF Power Amplifier 100 W	Overview
Applications	RFI/EMI susceptibility, HF/VHF transmitter drive, plasma and accelerator RF, and laboratory Class A linear power to 100 W.
Forward and reflected power measurement	Infinite VSWR ruggedness with +13 dBm input protection

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C
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Cooling	Forced air
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Weight	35 lb (16 kg)
Connectors	TypeNSoftware Overdrive Limit: 150 W
Software Reverse Power Limit	110 W
RF Input Signal Types	AM FM SSB Pulsed Notes Specs fromEand I 3100LA datasheet Rev P (February 2022). ENI 5100L is listed byEandlas closest equivalent to 3100LA; this file is for 3100LA itself.

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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Notes	
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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.