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Data Sheet

August 14, 2026

ENI

ENI 603L Broadband RF Power Amplifier

ENI 603L Broadband RF Power Amplifier 3 W The ENI 603L is an ultra wideband Class A solid state RF power amplifier capable of delivering over 3 W from 800 kHz to 1 GHz. OEM product literature rates 40 dB nominal gain with 1.5 dB maximum gain variation and 50 ohm input/output impedance. RF transmission laboratory work, RFI/EMI susceptibility drive, wideband sweep amplification, and general instrumentation needing flat gain across HF through UHF. Accepts CW AM FM SSB pulse and complex modulation The ENI 603L is an ultra wideband Class A solid state RF power amplifier capable of delivering over 3 W from 800 kHz to 1 GHz. OEM product literature rates 40 dB nominal gain with 1.5 dB maximum gain variation and 50 ohm input/output impedance. RF transmission laboratory work, RFI/EMI susceptibility drive, wideband sweep amplification, and general instrumentation needing flat gain across HF through UHF. Accepts CW AM FM SSB pulse and complex modulation Class Of Operation: Class A Modulation Compatibility: CW AM FM SSB pulse wideband sweep and complex



MODEL

ENI 603L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

603L

LISTING

<https://aumictechlabs.com/products/603l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ENI 603L is a Class A linear amplifier, ideal for constant envelope modulation schemes like FM, PM, and CW. It is frequently used in applications such as driver stages for higher power

amplifiers, signal distribution, and general laboratory use. The amplifier is equipped with built-in protection circuits to ensure safe operation and features a rugged design for long-term reliability.

603L Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	800 kHz to 1 GHz
Rated Output Power	greater than 3 W
Power Gain Nominal	40 dB
Gain Variation Maximum	1.5 dB
Input Impedance	50 ohm
Output Impedance	50 ohm
Class Of Operation	ClassAModulation Compatibility: CW AM FM SSB pulse wideband sweep and complex
Form Factor	benchtop
Topology	solid state broadband
Series Family	ENI 600 series class
Cooling	forced air class
AC Powered	yes
Connectors Class	RF coaxial 50 ohm
Stability Class	broadband amplifier class
Ruggedness Class	mismatch tolerant class per series literature
Instantaneous Bandwidth	yes full rated band
Band Switching	not required
Harmonic Performance	ClassAlinear class
Bandwidth	yes full rated band

603L Specifications

PARAMETER	VALUE
ENI 603L Broadband RF Power Amplifier 3 W	Overview
Ultra wideband Class A solid state design	Accepts CW AM FM SSB pulse and complex modulation
Flat gain across 800 kHz to 1 GHz	50 ohm matched ports
Technical Specifications	Frequency Range: 800 kHz to 1 GHz

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	
Numeric rows from ENI 603L product specification sheet summaries. Confirm exact harmonic and VSWR limits on the unit datasheet revision shipped with the amplifier.	

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.