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Data Sheet

August 15, 2026

EATON

Eaton 3552B Broadband RF Power Amplifier

Eaton Ailtech 3552B Broadband RF Power Amplifier 100 to 512 MHz The Eaton/Ailtech 3552B is a solid-state broadband linear RF power amplifier. OEM-style Eaton/Ailtech 3552B listings specify 100 to 512 MHz coverage, milliwatt sweeper/synthesizer drive, and a true directional wattmeter for forward and reflected power. Eaton catalog listings rate 35 W class output; confirm the faceplate wattmeter full scale on the unit. VHF/UHF RF power amplification, EMC and radio test drive, and laboratory high-power RF from a synthesizer. The Eaton/Ailtech 3552B is a solid-state broadband linear RF power amplifier. OEM-style Eaton/Ailtech 3552B listings specify 100 to 512 MHz coverage, milliwatt sweeper/synthesizer drive, and a true directional wattmeter for forward and reflected power. Eaton catalog listings rate 35 W class output; confirm the faceplate wattmeter full scale on the unit. VHF/UHF RF power amplification, EMC and radio test drive, and laboratory high-power RF from a synthesizer. True directional wattmeter forward and reflected



MODEL

Eaton 3552B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3552B

LISTING

<https://aumictechlabs.com/products/3552b-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Eaton 3552B is a solid-state broadband linear power amplifier designed for demanding industrial environments, particularly in applications requiring electromagnetic compatibility (EMC) susceptibility testing, laboratory research and development, and high-power component testing. Its solid construction and advanced circuitry ensure reliable performance under strenuous

conditions. Technical Specifications * Product Type: Solid State Broadband Linear Power Amplifier Model: 3552B Applications: * EMC Susceptibility Testing * Laboratory R&D (e.g., Lasers, Plasma, Ultrasonics, NMR, Radiological Health Effects) * High Power Component Testing Key Features: * Automatic thermal shutdown with reset * Active power circuit for protection against excessive VSWR, even during infinite output VSWR and simultaneous input overdrive * Provides high levels of CW, AM, FM, and pulse modulation signals * Designed for compatibility with susceptibility testing systems Power Requirements: 115/230 VAC, $\pm 10\%$, 50/60 Hz Weight: 43 lbs (19.5 kg) Dimensions: 7 $\times$ 17 $\times$ 17.25 inches (17.78 $\times$ 43.18 $\times$ 43.81 cm) Frequency Range: Not explicitly detailed in provided search snippets, but implied to be broadband for EMC and R&D applications. Output Power: Not explicitly detailed in provided search snippets for the 3552B model, but general descriptions mention "Sufficient power is available to satisfy virtually all of the currently specified field intensities." Electrical Characteristics * Input Voltage: 115/230 VAC Voltage Tolerance: $\pm 10\%$ Frequency: 50/60 Hz Protection Features: * Automatic thermal shutdown with reset * Active power circuit for VSWR protection Physical Characteristics * Dimensions: 7 inches (height) $\times$ 17 inches (width) $\times$ 17.25 inches (depth) * Metric: 17.78 cm (height) $\times$ 43.18 cm (width) $\times$ 43.81 cm (depth) Weight: 43 lbs (19.5 kg) Construction: Designed for reliable performance in demanding environments. Compatibility and Use Cases The Eaton 3552B is a crucial component for: * Electromagnetic Compatibility (EMC) Testing: Used as a power source for susceptibility testing systems to define a device's immunity to high-intensity RF fields. Research and Development (R&D): Essential for laboratory applications in fields such as lasers, plasma, ultrasonics, NMR, and radiological health effects, where power level stability and spectral purity are critical. Component Testing: Enables the evaluation of designs and products under high-power conditions, assessing their performance and potential failure points. Why Choose Aumictech for the Eaton 3552B? At Aumictech, we specialize in supplying high-end industrial automation equipment. Whether you need solid solutions for EMC susceptibility testing, reliable power amplifiers for laboratory R&D, or precise equipment for high-power component testing, our team ensures the Eaton 3552B delivers maximum performance and longevity for your critical applications.

3552B Characteristics / Specifications

PARAMETER	VALUE
Model	3552B
Instrument Type	Broadband RF power amplifier
Frequency Range	100 MHz to 512 MHz
Architecture	solid state linear
Drive	milliwatt sweeper or synthesizer
Wattmeter	true directional forward and reflected
Mechanical Package	benchtop
Manufacturer	Eaton Ailtech
Rated Power Listing	35 W class Eaton listing
Load	50 ohm class RF
Connectors	TypeNclass
Cooling	forced air
Protection	VSWR/thermal class
Line Power	AC mains
Operating Temperature Class	0 to 40 C
Duty	continuous RF
Gain Class	high power linear
Harmonics Class	linear amplifier
Spurious Class	solid state
Grounding	chassis ground
Metering	forward and reflected power
Frequency Band	VHF UHF
Operating temperature	Class: 0 to 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 40 C
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Duty	continuous RF
Gain Class	high power linear
Harmonics Class	linear amplifier
Spurious Class	solid state
Grounding	chassis ground
Metering	forward and reflected power
Frequency Band	VHF UHF Notes Frequency and directional-wattmeter features from Eaton/Ailtech 3552B amplifier listings. Rated RF power differs among catalog rows (35 W versus 50 W); use the faceplate directional wattmeter and nameplate rating of the unit.

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.