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**Data Sheet**

August 13, 2026

KROHN-HITE

## Krohn-Hite 7602

Krohn-Hite 7602 Wideband Power Amplifier DC to 1 MHz The Krohn-Hite 7602 is a 34 W (68 W at DC) wideband power amplifier with balanced outputs. Each output to ground matches the 7600 17 W specifications: DC to 1 MHz, 17 Wrms / 34 W dc and peak into 1 kohm to 500 kHz (5 Wrms to 1 MHz). No-load +/-200 V dc and peak, 141 Vrms. Balanced 7602 delivers 34 W continuous (68 W dc) and 282 Vrms (800 Vp-p). Gain 0 to 42 dB in 14 dB ranges. Distortion less than 0.01% to 5 kHz at 175 V peak. Slew greater than 600 V/us at 400 Vp-p. DC offset 0 to +/-200 V. Modes A, A-B, -B. The Krohn-Hite 7602 is a 34 W (68 W at DC) wideband power amplifier with balanced outputs. Each output to ground matches the 7600 17 W specifications: DC to 1 MHz, 17 Wrms / 34 W dc and peak into 1 kohm to 500 kHz (5 Wrms to 1 MHz). No-load +/-200 V dc and peak, 141 Vrms. Balanced 7602 delivers 34 W continuous (68 W dc) and 282 Vrms (800 Vp-p). Gain 0 to 42 dB in 14 dB ranges. Distortion less than 0.01% to 5 kHz at 175 V peak. Slew greater than 600 V/us at 400 Vp-p. DC offset 0 to +/-200 V. Modes A, A-B, -B. High-voltage wideband drive; piezo and transducer excitation; balanced 800 Vp-p lab amplification; DC-coupled HV analog.



MODEL

**Krohn-Hite 7602**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**7602**

LISTING

<https://aumictechlabs.com/products/7602-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Krohn-Hite 7602 is a wideband power amplifier delivering precision performance across DC to 1 MHz with output capabilities reaching  $\pm 200V$  peak and 17W RMS into 1 k $\Omega$  loads. Built on

hybrid CMOS power operational amplifier technology, it combines low distortion ( $<0.01\%$  to 5 kHz at 175V peak output) with variable gain control spanning 0 dB to 42 dB across three continuously variable ranges. The amplifier accommodates resistive and reactive loads while functioning as a bipolar high-voltage source through DC coupling and programmable DC offset control (0V to  $\pm 200\text{V}$ ). Technical Specifications Output Power & Voltage 17W RMS into 1 k $\Omega$  load, DC to 500 kHz; 5W RMS to 1 MHz 10W RMS into 600  $\Omega$  load, 100 Hz to 1 MHz  $\pm 200\text{V}$  peak (no load);  $\pm 184\text{V}$  peak into 1 k $\Omega$ , DC to 500 kHz 141V RMS no load; 130V RMS into 1 k $\Omega$ , DC to 500 kHz  $\pm 200\text{ mA}$  peak current, DC to 500 kHz (910  $\Omega$  load) Frequency Response & Distortion  $\pm 0.1\text{ dB}$  flatness, DC to 10 kHz  $\pm 0.25\text{ dB}$  to 200 kHz;  $\pm 0.5\text{ dB}$  to 500 kHz (0–130V RMS) Harmonic distortion  $<0.01\%$  to 5 kHz at 175V peak; 600 V/ $\mu\text{s}$  (400Vp-p); rise/fall time 120 ns (50Vp-p) Dynamic range  $>80\text{ dB}$  Hum and noise  $<10\text{ mV RMS}$  (2 MHz bandwidth, standard gain);  $<20\text{ mV RMS}$  at 28–42 dB gain range Load regulation  $<0.1\%$  (no load to 1 k $\Omega$ , DC to 10 kHz); 2% at 1 MHz Gain & Stability Continuously variable 0–42 dB across three overlapping ranges (0–14 dB, 14–28 dB, 28–42 dB) Gain accuracy  $\pm 0.1\text{ dB}$  plus frequency response specification Line voltage stability  $<0.001\text{ dB}$  per 10% change DC offset stability  $<1\text{ mV}$  per 10% line variation;  $<0.01\%/^{\circ}\text{C}$  temperature coefficient Key Features DC coupling supports both AC signal amplification and DC level shifting Three gain ranges enable precision control across low and high amplitude signals  $<0.5\text{ }\Omega$  internal impedance (DC–10 kHz) minimizes load interaction Maximum common-mode input  $\pm 200\text{V}$  peak (0–14 dB range) Inverting ( $180^{\circ} \pm 1^{\circ}$ ) and non-inverting ( $0^{\circ} \pm 1^{\circ}$ ) inputs for flexible signal conditioning Typical Applications High-voltage transducer drive and sensor excitation Audio power amplification with precision control Reactive load driving (capacitive and inductive) Precision test signal generation and function synthesis Bipolar DC power supply simulation Compatibility & Integration Accepts three input modes: A, A–B (differential), and –B (inverted). Input impedance specifications not stated. Maximum input voltage  $\pm 200\text{V}$  DC to ground without damage.

## Features & description

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From manufacturer datasheet

### Features

- DC to 1 MHz; balanced 7602 34 W / 282 Vrms / 800 Vp-p

## 7602 Characteristics / Specifications

| PARAMETER             | VALUE                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| Model                 | 7602                                                                                                             |
| Manufacturer          | Krohn-Hite                                                                                                       |
| Instrument Type       | Wideband Power Amplifier                                                                                         |
| Series                | 7600 / 7602                                                                                                      |
| Alias                 | 7602; 7602M; Krohn-Hite 7602                                                                                     |
| Frequency Range       | DC to 1 MHz                                                                                                      |
| Power 1 kohm          | 17 Wrms, 34 W dc and peak, DC to 500 kHz; 5 Wrms to 1 MHz (each output to ground)                                |
| Power 600 ohm         | 10 Wrms 100 Hz to 1 MHz; 5 Wrms / 10 W dc and peak DC to 100 Hz                                                  |
| Voltage No Load       | +/-200 V dc and peak, 141 Wrms                                                                                   |
| Voltage 1 kohm        | +/-184 V dc and peak, 130 Wrms DC to 500 kHz; +/-113 V peak, 80 Wrms at 1 MHz                                    |
| Voltage 600 ohm       | +/-113 V peak, 80 Wrms 100 Hz to 1 MHz; +/-78 V dc and peak, 55 Wrms DC to 100 Hz                                |
| Current 910 ohm       | +/-200 mA peak, 141 mA rms, DC to 500 kHz                                                                        |
| Balanced 7602 Power   | 34 W continuous, 68 W at DC                                                                                      |
| Balanced 7602 Voltage | 282 Wrms, 800 Vp-p                                                                                               |
| Frequency Response    | +/-0.1 dB DC to 10 kHz; +/-0.25 dB to 200 kHz; +/-0.5 dB to 500 kHz (0-130 Wrms); +/-0.5 dB to 1 MHz (0-80 Wrms) |
| Harmonic Distortion   | less than 0.01% to 5 kHz at 175 V peak; less than 0.05% at 200 V peak; less than 0.3% to 100 kHz                 |
| Voltage Gain          | 0 to 42 dB in ranges 0-14, 14-28, 28-42 dB, continuously variable                                                |
| Step Accuracy         | +/-0.1 dB plus frequency response; 14 dB steps (voltage gain of 5)                                               |
| Stability Gain        | less than 0.001 dB for 10% line change                                                                           |
| Dynamic Range         | greater than 80 dB                                                                                               |
| Hum And Noise         | less than 10 mWrms referred to output (2 MHz BW); less than 20 mWrms on 28-42 dB range                           |
| Rise Fall             | 120 ns to 50 Vp-p                                                                                                |

| PARAMETER          | VALUE                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slew Rate          | greater than 600 V/us at 400 Vp-p                                                                                                                                        |
| Aberrations        | less than 5%                                                                                                                                                             |
| Regulation         | less than 0.1% no load to 1 kohm DC to 10 kHz; rising to 2% at 1 MHz                                                                                                     |
| DC Offset Control  | 0 to +/-200 V no load                                                                                                                                                    |
| Internal Impedance | less than 0.5 ohm DC to 10 kHz; 5 ohm at 100 kHz; 20 ohm at 1 MHz                                                                                                        |
| Input Modes        | A, A-B, -B                                                                                                                                                               |
| Input Impedance    | 1 Mohm in parallel with 30 pF front only; 65 pF with front and optional rear                                                                                             |
| Max Input          | +/-200 Vdc referred to ground without damage                                                                                                                             |
| Output Protection  | foldback limiter; kickback diodes to the supply                                                                                                                          |
| Coupling           | DC Notes Specs from Krohn-Hite 7600/7602 operating manual and 7602 data sheet. 7602M is the differential/metered variant. Confirm 7602 vs 7600 (single-ended 17 W only). |
| Each side          | +/-200 V no-load, 17 Wrms into 1 kohm to 500 kHz                                                                                                                         |

# 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: DC to 1 MHz, 17 Wrms / 34 W dc and peak into 1 kohm to 500 kHz (5 Wrms to 1 MHz). No-load +/-200 V dc and peak, 141 Vrms. Balanced 7602 delivers 34 W continuous (68 W dc) and 282 Vrms (800 Vp-p). Gain 0 to 42 dB in 14 dB ranges. Distortion less than 0.01% to 5 kHz at 175 V peak. Slew greater than 600 V/us at 400 Vp-p. DC offset 0 to +/-200 V. Modes A, A-B, -B.

Applications

High-voltage wideband drive; piezo and transducer excitation; balanced 800 Vp-p lab amplification; DC-coupled HV analog.

Key Features

- DC to 1 MHz; balanced 7602 34 W / 282 Vrms / 800 Vp-p
- Each side: +/-200 V no-load, 17 Wrms into 1 kohm to 500 kHz
- Gain 0-42 dB in three 14 dB ranges
- THD less than 0.01% to 5 kHz at 175 V peak

Technical Specifications

## Technical Specifications

| PARAMETER       | VALUE                    |
|-----------------|--------------------------|
| Model           | 7602                     |
| Manufacturer    | Krohn-Hite               |
| Instrument Type | Wideband Power Amplifier |

## Specifications

| PARAMETER       | VALUE                        |
|-----------------|------------------------------|
| Series          | 7600 / 7602                  |
| Alias           | 7602; 7602M; Krohn-Hite 7602 |
| Frequency Range | DC to 1 MHz                  |

## Specifications

| PARAMETER       | VALUE                                                                             |
|-----------------|-----------------------------------------------------------------------------------|
| Power 1 kohm    | 17 Wrms, 34 W dc and peak, DC to 500 kHz; 5 Wrms to 1 MHz (each output to ground) |
| Power 600 ohm   | 10 Wrms 100 Hz to 1 MHz; 5 Wrms / 10 W dc and peak DC to 100 Hz                   |
| Voltage No Load | +/-200 V dc and peak, 141 Vrms                                                    |

## Specifications

| PARAMETER       | VALUE                                                                             |
|-----------------|-----------------------------------------------------------------------------------|
| Voltage 1 kohm  | +/-184 V dc and peak, 130 Vrms DC to 500 kHz; +/-113 V peak, 80 Vrms at 1 MHz     |
| Voltage 600 ohm | +/-113 V peak, 80 Vrms 100 Hz to 1 MHz; +/-78 V dc and peak, 55 Vrms DC to 100 Hz |
| Current 910 ohm | +/-200 mA peak, 141 mA rms, DC to 500 kHz                                         |

Specifications

| PARAMETER             | VALUE                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| Balanced 7602 Power   | 34 W continuous, 68 W at DC                                                                                      |
| Balanced 7602 Voltage | 282 Vrms, 800 Vp-p                                                                                               |
| Frequency Response    | +/-0.1 dB DC to 10 kHz; +/-0.25 dB to 200 kHz; +/-0.5 dB to 500 kHz (0-130 Vrms); +/-0.5 dB to 1 MHz (0-80 Vrms) |

Specifications

| PARAMETER           | VALUE                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------|
| Harmonic Distortion | less than 0.01% to 5 kHz at 175 V peak; less than 0.05% at 200 V peak; less than 0.3% to 100 kHz |
| Voltage Gain        | 0 to 42 dB in ranges 0-14, 14-28, 28-42 dB, continuously variable                                |
| Step Accuracy       | +/-0.1 dB plus frequency response; 14 dB steps (voltage gain of 5)                               |

Specifications

| PARAMETER      | VALUE                                                                                  |
|----------------|----------------------------------------------------------------------------------------|
| Stability Gain | less than 0.001 dB for 10% line change                                                 |
| Dynamic Range  | greater than 80 dB                                                                     |
| Hum And Noise  | less than 10 mVrms referred to output (2 MHz BW); less than 20 mVrms on 28-42 dB range |

Specifications

| PARAMETER   | VALUE                             |
|-------------|-----------------------------------|
| Rise Fall   | 120 ns to 50 Vp-p                 |
| Slew Rate   | greater than 600 V/us at 400 Vp-p |
| Aberrations | less than 5%                      |

Specifications

| PARAMETER         | VALUE                                                                |
|-------------------|----------------------------------------------------------------------|
| Regulation        | less than 0.1% no load to 1 kohm DC to 10 kHz; rising to 2% at 1 MHz |
| DC Offset Control | 0 to +/-200 V no load                                                |

| PARAMETER          | VALUE                                                             |
|--------------------|-------------------------------------------------------------------|
| Internal Impedance | less than 0.5 ohm DC to 10 kHz; 5 ohm at 100 kHz; 20 ohm at 1 MHz |

Specifications

| PARAMETER       | VALUE                                                                        |
|-----------------|------------------------------------------------------------------------------|
| Input Modes     | A, A-B, -B                                                                   |
| Input Impedance | 1 Mohm in parallel with 30 pF front only; 65 pF with front and optional rear |
| Max Input       | +/-200 Vdc referred to ground without damage                                 |

Output Protection: foldback limiter; kickback diodes to the supply

Coupling: DC

Notes

Specs from Krohn-Hite 7600/7602 operating manual and 7602 data sheet. 7602M is the differential/metered variant. Confirm 7602 vs 7600 (single-ended 17 W only).

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.