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Data Sheet

August 13, 2026

KROHN-HITE

Krohn-Hite DCA10

Krohn-Hite DCA10 Direct Coupled Amplifier DC to 1 MHz 10 W The Krohn-Hite DCA10 (DCA-10; rack DCA-10R / DCA10R) is a 10 W direct-coupled wideband amplifier from DC to 1 MHz. Frequency response is plus/minus 1 dB. Harmonic distortion 0.1%. Dynamic range 80 dB. Voltage gain 20 dB (voltage gain of 10), variable. Maximum output about 105 V, 130 mA. Load impedances 600-1000 ohm. Maximum input 10 V. Rack-style DCA-10R. DC-1 MHz 10 W analog drive; 600-1000 ohm lab loads; moderate-voltage wideband amplification. The Krohn-Hite DCA10 (DCA-10; rack DCA-10R / DCA10R) is a 10 W direct-coupled wideband amplifier from DC to 1 MHz. Frequency response is plus/minus 1 dB. Harmonic distortion 0.1%. Dynamic range 80 dB. Voltage gain 20 dB (voltage gain of 10), variable. Maximum output about 105 V, 130 mA. Load impedances 600-1000 ohm. Maximum input 10 V. Rack-style DCA-10R. DC-1 MHz 10 W analog drive; 600-1000 ohm lab loads; moderate-voltage wideband amplification. Instrument Type: Direct Coupled Wideband Amplifier



MODEL

Krohn-Hite DCA10

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DCA10

LISTING

<https://aumictechlabs.com/products/dca10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Krohn-Hite DCA10 is a direct-coupled power amplifier engineered for precise DC and AC signal amplification across wide frequency ranges. It delivers 10 V·A (20 V·A peaks) continuous from DC to 500 kHz into 1,000 Ω , and 10 W (20 W peaks) continuous from 1 Hz to 1 MHz into 600 Ω . The amplifier operates at full power output up to 50°C ambient temperature, making it ideal for

calibration, metrology, and precision measurement environments. Technical Specifications Power Output & Voltage 10 V·A (20 V·A peaks) continuous, DC to 500 kHz into 1,000 Ω load 10 W (20 W peaks) continuous, 1 Hz to 1 MHz into 600 Ω load 20 W continuously at DC Open-circuit output exceeds 105 V RMS (300 V peak-to-peak) DC to 1 MHz 100 V RMS (280 V peak-to-peak) across 1,000 Ω , DC to 500 kHz 78 V RMS (218 V peak-to-peak) across 600 Ω , 1 Hz to 1 MHz Output Current Greater than 210 mA RMS (± 300 mA peak) through 10 Ω above 1 Hz 130 mA RMS (± 180 mA peak) through 600 Ω 100 mA RMS (± 140 mA peak) through 1,000 Ω 42 mA RMS (± 60 mA peak) through 10 Ω below 1 Hz 52 mA RMS through 1,000 Ω below 1 Hz Gain & Input Sensitivity Continuously variable gain to maximum of 10 Fixed gain of 10 ($\pm 10\%$, 20 ± 1 dB) with no phase reversal; fixed gain of 1 ($\pm 10\%$, 0 ± 1 dB) with phase reversal 7.8 V RMS (600 Ω load) or 10 V RMS (1,000 Ω load) for 10 W output at maximum gain Coupling & Output Control Direct coupling and 1 Hz capacitor coupling on input Direct coupled DC output terminals; AC output terminals capacitor coupled with approximately 25 Hz low cutoff (600 Ω load) Output DC level adjustable via front panel control; nominal zero at AC terminals, $\pm 0.02\%$ stability per hour at fixed line voltage, $\pm 0.2\%$ typical for $\pm 10\%$ line voltage variation Frequency Response DC to 500 kHz into 1,000 Ω ; 1 Hz to 1 MHz into 600 Ω Nominal 30 Hz to 500 kHz in two ranges: 30 Hz to 10 kHz and 10 kHz to 500 kHz Input Protection Maximum 400 V DC component in AC-coupled fixed gain positions Combined AC and DC input voltages limited to 2 W dissipation in 5,000 Ω GAIN potentiometer at variable gain positions Key Features Low distortion across DC to 1 MHz bandwidth Flat frequency response for accurate signal reproduction Switchable input coupling (direct or AC) Independent DC and AC output terminals Front panel gain and DC offset adjustment Typical Applications Precision calibration labs, metrology instruments, research signal conditioning, impedance matching networks, transducer amplification.

DCA10 Characteristics / Specifications

PARAMETER	VALUE
Model	DCA10
Manufacturer	Krohn-Hite
Instrument Type	Direct Coupled Wideband Amplifier
Series	DCA-10
Alias	DCA10; DCA-10; DCA-10R; DCA10R; Krohn-Hite DCA10
Frequency Range	DC to 1 MHz (1 mc listings)
Output Power	10 W
Frequency Response	plus/minus 1 dB
Harmonic Distortion	0.1%
Dynamic Range	80 dB
Voltage Gain	20 dB variable (voltage gain of 10)
Maximum Input	10 V
Maximum Output Voltage	105 V
Maximum Output Current	130 mA
Load Impedance	600 to 1000 ohm
Coupling	direct (DC coupled)
Form Rack	DCA-10R rack style
Form Bench	DCA-10
Topology	analog wideband power amplifier
Protection	observe 10 W / 105 V / 130 mA limits; confirm foldback on the installed manual
Input	10 V class maximum
Bandwidth	DC through 1 MHz
Duty	continuous within 10 W into 600-1000 ohm
Related 76	Krohn-Hite 7602/7602M is a 34 W / 282 Vrms family, not this 10 W DCA10

PARAMETER	VALUE
Status	legacy Krohn-Hite amplifier
Documentation	Krohn-Hite DCA-10 / DCA-10R datasheet
Connections	input and 600-1000 ohm output terminals
Line Power	confirm 115/230 Vac on the nameplate (not published on the short TEC listing)
Cooling	chassis; confirm fan on rack DCA-10R Notes Specs from Krohn-Hite DCA-10 / DCA-10R listings (DC-1 MHz, 10 W, plus/minus 1 dB, 0.1% THD, 80 dB, gain 10, 105 V / 130 mA, 600-1000 ohm, 10 V input). Confirm bench vs rack (R) and line voltage. Do not copy 7602 34 W / 800 Vp-p ratings onto DCA10.

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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PARAMETER	VALUE
Model	DCA10
Manufacturer	Krohn-Hite
Instrument Type	Direct Coupled Wideband Amplifier
Specifications	
PARAMETER	VALUE
Series	DCA-10
Alias	DCA10; DCA-10; DCA-10R; DCA10R; Krohn-Hite DCA10
Frequency Range	DC to 1 MHz (1 mc listings)
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PARAMETER	VALUE
Output Power	10 W
Frequency Response	plus/minus 1 dB
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Voltage Gain	20 dB variable (voltage gain of 10)
Maximum Input	10 V
Specifications	
PARAMETER	VALUE
Maximum Output Voltage	105 V
Maximum Output Current	130 mA
Load Impedance	600 to 1000 ohm

Specifications

PARAMETER	VALUE
Coupling	direct (DC coupled)
Form Rack	DCA-10R rack style
Form Bench	DCA-10

Specifications

PARAMETER	VALUE
Topology	analog wideband power amplifier
Protection	observe 10 W / 105 V / 130 mA limits; confirm foldback on the installed manual
Input	10 V class maximum

Specifications

PARAMETER	VALUE
Bandwidth	DC through 1 MHz
Duty	continuous within 10 W into 600-1000 ohm
Related 7602	Krohn-Hite 7602/7602M is a 34 W / 282 Vrms family, not this 10 W DCA10

Specifications

PARAMETER	VALUE
Status	legacy Krohn-Hite amplifier
Documentation	Krohn-Hite DCA-10 / DCA-10R datasheet
Connections	input and 600-1000 ohm output terminals

Line Power: confirm 115/230 Vac on the nameplate (not published on the short TEC listing)

Cooling: chassis; confirm fan on rack DCA-10R

Notes

Specs from Krohn-Hite DCA-10 / DCA-10R listings (DC-1 MHz, 10 W, plus/minus 1 dB, 0.1% THD, 80 dB, gain 10, 105 V / 130 mA, 600-1000 ohm, 10 V input). Confirm bench vs rack (R) and line voltage. Do not copy 7602 34 W / 800 Vp-p ratings onto DCA10.

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.