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Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research DC5000

Amplifier Research DC5000 Dual Directional Coupler The Amplifier Research DC5000 is a dual directional coupler accessory used with AR amplifiers for forward and reflected power sampling across multi-hundred-watt RF systems. OEM coupler family literature specifies 50-ohm Type N class interfaces and coupling factors suitable for amplifier power metering and leveling loops. Forward/reflected power sampling on AR amplifiers, ALC leveling loops, and wattmeter calibration setups. Dual directional forward reflected sampling The Amplifier Research DC5000 is a dual directional coupler accessory used with AR amplifiers for forward and reflected power sampling across multi-hundred-watt RF systems. OEM coupler family literature specifies 50-ohm Type N class interfaces and coupling factors suitable for amplifier power metering and leveling loops. Forward/reflected power sampling on AR amplifiers, ALC leveling loops, and wattmeter calibration setups. Dual directional forward reflected sampling

Instrument Type: Dual directional coupler



MODEL

**Amplifier Research
DC5000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DC5000

LISTING

<https://aumictechlabs.com/products/dc5000-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research DC5000 is a DC power amplifier engineered for demanding applications requiring high efficiency and reliable performance. It serves EMC testing, laboratory environments, and high-power device driving with substantial power output. The unit features a

digital control panel with graphic display, menu-assigned softkeys, rotary knob, and dedicated status switches for local operation. Remote control via GPIB/IEEE-488 is standard, with Ethernet control available on select configurations. A front-panel keylock provides positive control of operational mode selection. Technical Specifications Input Power: 100 VAC to 240 VAC, 50/60 Hz Efficiency: High efficiency design Power Factor Correction: Integrated on select models Cooling: Air-cooled or natural convection Chassis: Rack-mount enclosure, 19" format (2U/3U) Operating Temperature: 5°C to 40°C Altitude Rating: Up to 2000 m Maximum Relative Humidity: 80% at 5°C to 35°C; 50% at 40°C Key Features Graphic digital control panel with menu-driven interface GPIB/IEEE-488 remote control and status monitoring Optional Ethernet remote control capability Front-panel keylock for operation mode security Fiber-optic ports available on selected configurations Connector types are configuration-dependent Typical Applications EMC (electromagnetic compatibility) testing Laboratory power delivery High-power device characterization Compatibility & Integration Full remote control and status indications are accessible via GPIB/IEEE-488 format. Ethernet connectivity extends control capabilities for networked laboratory environments. Connector selection and fiber-optic communication ports vary by configuration.

DC5000 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Dual directional coupler
RF Impedance	50 ohms
Function	Forward and reflected power sampling
Connector Class	TypeNfemale class
Series Family	DC5000
Form Factor	Inline RF coupler
Primary Use	Amplifier power monitoring
Coupling Factor Class	Fixed coupling per nameplate class
Directivity Class	High directivity dual coupler class
Frequency Coverage Class	Matches companion amplifier bands class
Power Handling Class	High power CW rated class
Insertion Loss Class	Low mainline loss class
VSWR Class	Low mainline VSWR class
Operating Temperature Class	Amplifier room ambient class
Cooling	Passive
Calibration	Coupling factor on nameplate or certificate
Export Classification Class	Commercial RF passive class
Weight Class	Coupler accessory weight class
Mounting	Inline between amplifier and load
Related Use	ALC and power meter sample ports
Gender Interface Class	TypeNclass
Harmonic Effects Class	Broadband coupler response class
Operating temperature	Class: Amplifier room ambient class

DC5000 Specifications

PARAMETER	VALUE
Amplifier Research DC5000 Dual Directional Coupler	Overview
Dual directional forward reflected sampling	50 ohm RF path class
Technical Specifications	Instrument Type: Dual directional coupler

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Amplifier room ambient class
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Cooling	Passive
Calibration	Coupling factor on nameplate or certificate
Export Classification Class	Commercial RF passive class
Weight Class	Coupler accessory weight class
Mounting	Inline between amplifier and load
Related Use	ALC and power meter sample ports
Gender Interface Class	TypeNclass
Harmonic Effects Class	Broadband coupler response class Notes From Amplifier Research DC5000 dual directional coupler family documentation. Confirm exact frequency band, coupling factor, and power rating on the unit nameplate.

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	
From Amplifier Research DC5000 dual directional coupler family documentation. Confirm exact frequency band, coupling factor, and power rating on the unit nameplate.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.