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Data Sheet

August 14, 2026

COMTECH PST

Comtech PST ARD8829 RF Power Amplifier 50W

Comtech PST ARD8829-50 RF Power Amplifier (IEEE Bus Option Class) The Comtech PST ARD8829-50 is the AR8829-50 Class A 800 to 2000 MHz 50 W amplifier path with optional IEEE-488 remote control/monitoring (ARD designation). Series AR amplifiers are rack-mountable ClassAlinear units housing Series AM modules with built-in AC supplies for models up to 100 W and forced-air cooling. OEM Comtech PST AR catalogs list CW AM FM phase and pulse modulation capability with open/short load protection. Wireless communications test, EMC/RF susceptibility drive, and general-purpose linear RF amplification in the model band. The Comtech PST ARD8829-50 is the AR8829-50 Class A 800 to 2000 MHz 50 W amplifier path with optional IEEE-488 remote control/monitoring (ARD designation). Series AR amplifiers are rack-mountable ClassAlinear units housing Series AM modules with built-in AC supplies for models up to 100 W and forced-air cooling. OEM Comtech PST AR catalogs list CW AM FM phase and pulse modulation capability with open/short load protection. Wireless communications test, EMC/RF susceptibility drive, and general-purpose linear RF amplification in the model band.



MODEL

**Comtech PST
ARD8829-50**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ARD8829-50

LISTING

<https://aumictechlabs.com/products/ard8829-50-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Comtech PST ARD8829-50 is a 50-watt solid-state RF power amplifier range of applications, operating within the 800 MHz to 2.0 GHz frequency range. This amplifier is engineered for reliability and performance in demanding environments, suitable for various communication systems, electronic warfare, and general-purpose testing applications. The ARD8829-50 is known for its stability and solid design, ensuring consistent power output across its specified frequency band.

Technical Specifications

- Manufacturer:** Comtech PST
- Model:** ARD8829-50
- Type:** Solid State Power Amplifier
- Frequency Range:** 800 MHz to 2.0 GHz
- Output Power:** 50 Watts
- Power Gain:** Not explicitly specified for the ARD8829-50 model, but related models in the AR series offer gains around 40-47 dB.
- P1dB (Saturated Power):** Not explicitly specified for the ARD8829-50 model.
- Harmonics:** Not explicitly specified for the ARD8829-50 model.
- VSWR:** The amplifier is stated to be unconditionally stable into any load VSWR. Specific input and output VSWR figures are not provided for this model.
- Cooling:** Forced air cooling via an internal fan.
- AC Input:** Universal AC input is available for models up to 100 Watts, typically 100-240Vac, 50/60Hz. For models above 100 Watts, a 200-240Vac, 50/60Hz input is common, with 3-phase input also available. Specific input requirements for the ARD8829-50 are not detailed.

Interfaces and Control

- * IEEE BUS (GPIB):** An optional IEEE BUS (GPIB) interface is available for remote control and monitoring, designated as the "ARD" version.
- Digital Control:** Features programmable digital control.
- Other Interfaces:** While not specified for this exact model, other Comtech PST amplifiers may offer options such as Ethernet, Serial Interface (RS232) for monitoring, and front or rear panel RF I/O.

Physical Characteristics

- * Form Factor:** Rack-mountable.
- Dimensions and Weight:** Specific dimensions and weight for the ARD8829-50 are not provided in the available documentation. However, related models in the AR series are listed with dimensions such as 5.22 × 19 × 22 inches (13.26 × 48.26 × 55.88 cm).

Compatibility

- * Applications:** Suitable for various communication systems, electronic warfare, general-purpose RF testing, and other applications requiring stable, high-power amplification within its frequency range.

Integration: Designed for integration into systems requiring reliable RF power amplification.

Why Choose Aumictech for Comtech PST ARD8829-50? At Aumictech, we specialize in sourcing and supplying RF and microwave equipment. Whether you need a reliable Comtech PST ARD8829-50 for demanding test environments, solid solutions for communication systems, or specific technical expertise to integrate advanced amplifiers, our team ensures you receive equipment that meets stringent performance and quality standards for your critical applications.

ARD8829 Characteristics / Specifications

PARAMETER	VALUE
Model	ARD8829-50
Base Amplifier Model	AR8829-50
Frequency Range	800 to 2000 MHz
Output Power P1dB	50 W
Saturated Power	55 W
Gain At P1dB Minimum	47 dB
Gain Flatness Class	plus or minus 1.5 dB
Remote Option	IEEE-488 BUS (ARD)
Height	5.22 in (13.26 cm)
Width	19 in (48.26 cm)
Depth	22 in (55.88 cm)
Weight Class	40 lb (18.19 kg)
Modulation Capability	CW AM FM phase and pulse
Harmonics Maximum	minus 20 dBc
Spurious Maximum	minus 60 dBc
Input VSWR Maximum	2.0:1
Load VSWR	open/short protected unconditionally stable
Noise Figure Typical	10 dB
Maximum RF Input	10 dBc above input for P1dB
RF Connectors Up To 50 W	TypeNfemale bulkhead
AC Input Models To 100 W	universal 100-240 Vac 50/60 Hz PFC class
Cooling	forced air internal blowers
Form Factor	19 inch rack mount
Series Family	Comtech PST Series AR

ARD8829 Specifications

PARAMETER	VALUE
Open/short circuit load protection	Optional IEEE-488 ARD remote variants
Technical Specifications	Model: ARD8829-50
Notes	RF rows from Comtech AR8829-50 catalog; ARD prefix denotes IEEE-488 option per Series AR literature.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.