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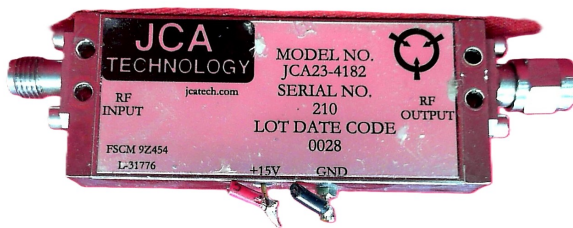
Data Sheet

August 15, 2026

JCA TECHNOLOGY

JCA Technology JCA23-3271

The JCA23-3271 is a spring-diaphragm pneumatic actuator engineered for modulating and on/off control in industrial valve applications. It converts pneumatic input signals into proportional linear stem movement through a rolling diaphragm balanced against internal spring force. This actuator delivers reliable actuation across demanding process control environments where precise valve positioning is required. Configurable fail-safe action: Fail Open (stem retracts) or Fail Closed (stem extends) upon air loss Aumictech offers NIST-traceable calibration and repair for the JCA Technology JCA23-3271. Calibration covers I/O channel accuracy per specification, analog output and input calibration to rated accuracy, and functional communication interface test (serial, Ethernet, fieldbus). All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1-3 business days after rec



MODEL

**JCA Technology
JCA23-3271**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

JCA23-3271

LISTING

<https://aumictechlabs.com/products/jca23-3271-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JCA23-3271 is a spring-diaphragm pneumatic actuator engineered for modulating and on/off control in industrial valve applications. It converts pneumatic input signals into proportional linear stem movement through a rolling diaphragm balanced against internal spring force. This actuator delivers reliable actuation across demanding process control environments where precise valve positioning is required. Technical Specifications Diaphragm areas are available in eight standard

sizes: 60, 80, 120, 240, 350, 700, 1400, and 2800 cm² (9.3 to 434 in²). Rated travels span 0.3 to 4.8 inches (7.5 to 120 mm) depending on diaphragm selection. Internal spring configurations are modular, with up to 30 springs installable to establish bench range and fail-safe behavior. Case materials include epoxy-coated steel for standard duty, ductile iron for the largest diaphragm area (2800 cm²), and die-cast aluminum for the Type 3271-5 variant. Stainless steel exterior components are available for corrosive environments. The unit accommodates both top-mounted and side-mounted handwheels for manual stem adjustment. Mechanically adjustable travel stops are offered for select diaphragm area ranges.

Key Features

- Rolling diaphragm design for smooth, repeatable response
- Configurable fail-safe action: Fail Open (stem retracts) or Fail Closed (stem extends) upon air loss
- Modular spring arrangement for custom bench range tuning
- Manual override capability via integral handwheel
- Multiple material options for diverse chemical and temperature environments
- Vent plug design critical for trouble-free operation - blockage must be avoided

Typical Applications

The Type 3271 is deployed in process industries requiring proportional valve control, including chemical processing, power generation, oil and gas, and water treatment systems where pneumatic actuation is preferred.

Compatibility & Integration

The actuator integrates with standard 3/2, 4/2, and 4/3 pneumatic control systems. Signal pressure operates against spring force to position the stem; fail-safe behavior is determined by spring preload and signal connection point. Supply pressure limits and specific signal ranges depend on diaphragm area and spring configuration selected.

JCA233271 Characteristics / Specifications

PARAMETER	VALUE
Model	JCA23-3271
Instrument Type	RF amplifier
Family	JCA23
Manufacturer	JCA Technology
Literature	JCA Technology JCA23-3271 listings
Brand Lineage	JCA Technology
Form Factor	RF amplifier module
System Role	microwave gain
Application Class	ATE/defense RF
Impedance Class	50 ohm class
Related Model	JCA23-2298
Documentation Type	OEM JCA23-3271 listing
Vendor Path	JCA Technology
Year Class	JCA23-3271
Frequency Class	per JCA23-3271 datasheet
Gain Class	per JCA23-3271 datasheet
Noise Class	per JCA23-3271 datasheet
P1db Class	per JCA23-3271 datasheet
Bias Class	per JCA23-3271 datasheet
Connector Class	per JCA23-3271
Package Class	JCA23
Operating Temperature Class	per JCA23-3271
Screening Class	per JCA23-3271
Documentation Class	JCA23-3271 datasheet
Operating temperature	Class: per JCA23-3271

JCA233271 Specifications

PARAMETER	VALUE
Applications	RF/microwave gain in ATE and defense 50 ohm chains.
Key Features	JCA23 series RF amplifier
JCA Technology connectorized/cascadable class	Companion catalog member to JCA23-2298
Technical Specifications	Model: JCA23-3271
Notes	Identity from JCA Technology JCA23-3271 listings. Frequency, gain, NF, and P1dB are on the JCA23-3271 amplifier data sheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: per JCA23-3271
Operating Temperature	Class: per JCA23-3271
Operating Temperature Class	per JCA23-3271
Screening Class	per JCA23-3271
Documentation Class	JCA23-3271 datasheet Notes Identity from JCA Technology JCA23-3271 listings. Frequency, gain, NF, and P1dB are on the JCA23-3271 amplifier data sheet.

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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Noise Class	per JCA23-3271 datasheet
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Bias Class	per JCA23-3271 datasheet
Connector Class	per JCA23-3271
Package Class	JCA23
Operating Temperature Class	per JCA23-3271
Screening Class	per JCA23-3271
Documentation Class	JCA23-3271 datasheet

Notes

Identity from JCA Technology JCA23-3271 listings. Frequency, gain, NF, and P1dB are on the JCA23-3271 amplifier data sheet.

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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<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.