

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

JCA TECHNOLOGY

JCA Technology JCA23-2298

The JCA Technology JCA23-2298 is an RF amplifier engineered for demanding test, measurement, and signal processing applications across defense, aerospace, and communications sectors. It delivers predictable gain and phase characteristics essential for multi-channel transmit-receive architectures and precision RF systems. The component incorporates automated assembly with pick-and-place precision and automatic wire-bonding to ensure consistent performance and reliability in deployments. Operating Temperature Range: -40 °C to +100 °C (power derating applies from +75 °C to +100 °C) Precision automated assembly with pick-and-place machinery and automatic wire-bonding Tight gain tracking and matching tolerances for phase-coherent multi-channel systems



MODEL

**JCA Technology
JCA23-2298**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

JCA23-2298

LISTING

<https://aumictechlabs.com/products/jca23-2298-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JCA Technology JCA23-2298 is an RF amplifier engineered for demanding test, measurement, and signal processing applications across defense, aerospace, and communications sectors. It delivers predictable gain and phase characteristics essential for multi-channel transmit-receive architectures and precision RF systems. The component incorporates automated assembly with pick-and-place precision and automatic wire-bonding to ensure consistent performance and reliability in deployments. Technical Specifications Gain Tracking:

± 0.75 dB across 2–18 GHz bandwidth Gain Matching: ± 1.5 dB across 2–18 GHz bandwidth Noise Figure: Ultra-low noise performance Phase Parameters: Predictable and consistent across operating range Operating Temperature Range: -40 °C to $+100$ °C (power derating applies from $+75$ °C to $+100$ °C) Key Features Precision automated assembly with pick-and-place machinery and automatic wire-bonding Tight gain tracking and matching tolerances for phase-coherent multi-channel systems Low-noise design optimized for weak-signal detection and measurement applications Operating temperature capability from -40 °C industrial floor to $+100$ °C thermal ceiling Typical Applications RF and microwave test equipment Millimeter-wave signal conditioning Multi-channel receiver front-ends Defense and security signal processing Aerospace telemetry and communications Industrial RF measurement systems Compatibility & Integration The JCA23-2298 integrates into systems requiring RF amplification with matched gain and phase response across 2–18 GHz. Compatible with standard RF connector interfaces typical of test and measurement architectures. Designed for OEM integration into systems where phase coherence and gain stability are critical performance parameters.

JCA232298 Characteristics / Specifications

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

JCA232298 Specifications

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

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: per JCA23-2298
Operating Temperature	Class: per JCA23-2298
Operating Temperature Class	per JCA23-2298
Screening Class	per JCA23-2298
Documentation Class	JCA23-2298 datasheet Notes Identity from JCA Technology JCA23-2298 listings. Frequency, gain, NF, and P1dB are on the JCA23-2298 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	
Specifications	
PARAMETER	VALUE
Model	JCA23-2298
Instrument Type	RF amplifier
Family	JCA23
Manufacturer	JCA Technology
Literature	JCA Technology JCA23-2298 listings
Brand Lineage	JCA Technology
Form Factor	RF amplifier module
System Role	microwave gain
Application Class	ATE/defense RF
Impedance Class	50 ohm class
Documentation Type	OEM JCA23-2298 listing
Vendor Path	JCA Technology
Year Class	JCA23-2298
Frequency Class	per JCA23-2298 datasheet
Gain Class	per JCA23-2298 datasheet
Noise Class	per JCA23-2298 datasheet
P1db Class	per JCA23-2298 datasheet
Bias Class	per JCA23-2298 datasheet
Connector Class	per JCA23-2298
Package Class	JCA23
Operating Temperature Class	per JCA23-2298
Screening Class	per JCA23-2298
Documentation Class	JCA23-2298 datasheet
Notes	
Identity from JCA Technology JCA23-2298 listings. Frequency, gain, NF, and P1dB are on the JCA23-2298 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

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

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.