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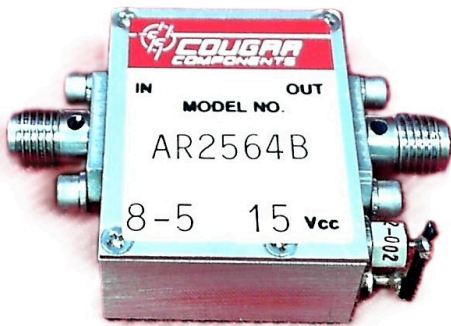
Data Sheet

August 15, 2026

COUGAR COMPONENTS

Cougar Components AR2564B

The Teledyne Cougar AR2564 (AR2564B screened/package build) is a 50 ohm cascable AR-series amplifier. The 2016 Cougar selection guide lists frequency 20 to 2500 MHz, gain typically 19.0 dB with 18.0 dB minimum at 0 to 50 C and 17.5 dB minimum at minus 55 to plus 85 C, flatness 0.6/0.7 dB, noise figure 3.5/4.0/4.5 dB, P1dB 16.5/15.5/15.0 dBm, reverse isolation typically 35 dB, IP3/IP2 typically 27/39 dBm, SWR 1.7/1.8, and plus 15 V at typically 50 mA. Wideband 20 MHz to 2.5 GHz gain in 50 ohm receiver and ATE chains needing lower current than AC2564. Teledyne Cougar AR2564B 20 to 2500 MHz Cascadable Amplifier The Teledyne Cougar AR2564 (AR2564B screened/package build) is a 50 ohm cascable AR-series amplifier. The 2016 Cougar selection guide lists frequency 20 to 2500 MHz, gain typically 19.0 dB with 18.0 dB minimum at 0 to 50 C and 17.5 dB minimum at minus 55 to plus 85 C, flatness 0.6/0.7 dB, noise figure 3.5/4.0/4.5 dB, P1dB 16.5/15.5/15.0 dBm, reverse isolation typically 35 dB, IP3/IP2 typically 27/39 dBm, SWR 1.7/1.8, and plus 15 V at typically 50 mA.



MODEL

**Cougar
Components
AR2564B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AR2564B

LISTING

<https://aumictechlabs.com/products/ar2564b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Cougar Components AR2564B is a hybrid amplifier engineered for demanding aerospace, space, military, industrial, and commercial applications. Built with chip and wire hybrid

construction, this component delivers the reliability and performance required in systems. Teledyne RF & Microwave, originating from Cougar Components, brings over 40 years of space heritage with no in-flight failures - a proven track record for systems where failure is not an option.

Technical Specifications The AR2564B is part of Teledyne Cougar's broad amplifier portfolio, which spans 0.3 MHz to 20 GHz. Like other models in the family, this amplifier supports screening to MIL-PRF-38534 Class H and Class K specifications for applications demanding enhanced reliability assurance.

Key Features Chip and wire hybrid construction for optimized performance and reliability Customizable design options to meet specific system requirements Screening available to MIL-PRF-38534 Class H and Class K for critical aerospace and military applications Teledyne RF & Microwave heritage: 40+ years in space applications with zero in-flight failures Designed to integrate into complex RF and microwave systems

Typical Applications The AR2564B serves aerospace, space, military, industrial, and commercial RF/microwave systems where performance consistency and long-term reliability are essential. Its hybrid construction makes it suitable for applications requiring both electrical performance and environmental ruggedness.

Compatibility & Integration As a member of the Teledyne Cougar amplifier family, the AR2564B is engineered for integration into modular RF and microwave architectures. Its customizable architecture supports design flexibility for specialized system requirements.

AR2564B Characteristics / Specifications

PARAMETER	VALUE
Model	AR2564B
Base Model	AR2564
Instrument Type	Cascadable RF amplifier
Frequency Range	20 to 2500 MHz
System Impedance	50 ohm
Gain Typical	19.0 dB
Gain Min 0 To 50 C	18.0 dB
Gain Min Minus 55 To 85 C	17.5 dB
Gain Flatness Typical	0.6 dB
Gain Flatness Max	0.7 dB
Noise Figure Typical	3.5 dB
Noise Figure Max 0 To 50 C	4.0 dB
Noise Figure Max Minus 55 To 85 C	4.5 dB
P1db Typical	16.5 dBm
P1db Min 0 To 50 C	15.5 dBm
P1db Min Minus 55 To 85 C	15.0 dBm
Reverse Isolation Typical	35 dB
Third Second Intercept	27/39 dBm typical
Swr Typical	1.7
Swr Max	1.8
Dc Voltage	plus 15 V nominal
Dc Current	50 mA typical
Package Class	AR TO-8B amplifier
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar Amplifiers Product Selection Guide 2016 AR2564 row

PARAMETER	VALUE
Family	Cougar AR cascadable amplifiers
Form Factor	TO-8B cascadable amplifier
System Role	broadband RF gain
Brand Lineage	Cougar Components Teledyne Microwave
Screening Class	B suffix screened/package build of AR2564
Operating Mode	50 ohm small signal amplifier

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	AR2564B
Base Model	AR2564
Instrument Type	Cascadable RF amplifier
Frequency Range	20 to 2500 MHz
System Impedance	50 ohm
Gain Typical	19.0 dB
Gain Min 0 To 50 C	18.0 dB
Gain Min Minus 55 To 85 C	17.5 dB
Gain Flatness Typical	0.6 dB
Gain Flatness Max	0.7 dB
Noise Figure Typical	3.5 dB
Noise Figure Max 0 To 50 C	4.0 dB
Noise Figure Max Minus 55 To 85 C: 4.5 dB	
Specifications	
PARAMETER	VALUE
P1db Typical	16.5 dBm
P1db Min 0 To 50 C	15.5 dBm
P1db Min Minus 55 To 85 C	15.0 dBm
Reverse Isolation Typical	35 dB
Third Second Intercept	27/39 dBm typical
Swr Typical	1.7
Swr Max	1.8
Dc Voltage	plus 15 V nominal
Dc Current	50 mA typical
Package Class	AR T0-8B amplifier

PARAMETER	VALUE
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar Amplifiers Product Selection Guide 2016 AR2564 row
Family	Cougar AR cascadable amplifiers
Form Factor	T0-8B cascadable amplifier
System Role	broadband RF gain
Brand Lineage	Cougar Components Teledyne Microwave
Screening Class	B suffix screened/package build of AR2564
Operating Mode	50 ohm small signal amplifier

Notes

Numeric rows from the Teledyne Cougar 2016 amplifier selection guide AR2564 line (20 to 2500 MHz, 19.0/18.0/17.5 dB, NF 3.5/4.0/4.5 dB, P1dB 16.5/15.5/15.0 dBm, 15 V / 50 mA). Plots and screening codes are on the AR2564 data sheet pages.

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 ·
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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.