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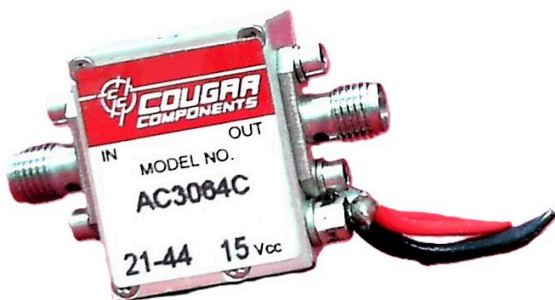
Data Sheet

August 15, 2026

COUGAR COMPONENTS

Cougar Components AC3064C

Teledyne Cougar AC3064C Cascade Amplifier SMA to 3 GHz 18 dB Class The AC3064C is a Teledyne Cougar SMA cascade amplifier in the AC3064 cascadable family. Public Cougar AC3064C listings identify an SMA cascade module to 3 GHz with 18 dB gain class, consistent with Cougar AC30xx TO-8 cascadable amplifiers packaged in SMA housings (C suffix). Bias is the Cougar cascadable +15 V class used across AC30/AC40 TO-8 gain blocks. Exact P1dB, NF, and current are on the AC3064 die data sheet and are not invented here. The AC3064C is a Teledyne Cougar SMA cascade amplifier in the AC3064 cascadable family. Public Cougar AC3064C listings identify an SMA cascade module to 3 GHz with 18 dB gain class, consistent with Cougar AC30xx TO-8 cascadable amplifiers packaged in SMA housings (C suffix). Bias is the Cougar cascadable +15 V class used across AC30/AC40 TO-8 gain blocks. Exact P1dB, NF, and current are on the AC3064 die data sheet and are not invented here. SMA cascadable gain to 3 GHz in 50 ohm microwave chains. Instrument Type: Wideband cascadable RF amplifier



MODEL

**Cougar
Components
AC3064C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC3064C

LISTING

<https://aumictechlabs.com/products/ac3064c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Cougar Components AC3064C is a hybrid RF amplifier engineered for broadband operation across 0.1–3.0 GHz. Built on chip and wire hybrid construction in a TO-8 package, it delivers

consistent gain and low noise performance across industrial, commercial, and military applications. The device supports upscreening to MIL-PRF-38534 Class H and Class K standards, enabling deployment in environments. Technical Specifications Small signal gain reaches 18.5 dB typical across 0–50 °C, with guaranteed minimums of 17.5 dB and 16.5 dB over the extended operating range of –55 to +85 °C. Gain flatness remains ± 0.3 dB typical, improving to ± 0.6 dB and ± 0.8 dB at temperature extremes. Noise figure measures 3.3 dB typical in the 0.4–3.0 GHz band at standard conditions, rising to 4.0 dB and 4.5 dB guaranteed across the full temperature range. At 0.1–0.4 GHz, noise figure is 4.5 dB typical, guaranteed to 5.0 dB and 5.5 dB respectively. Output power at 1 dB compression point reaches +16.5 dBm typical, with guaranteed performance of +15.5 dBm and +15.0 dBm at temperature limits. Input and output SWR remain 1.5:1 typical, guaranteed to 1.9:1 and 2.1:1. Reverse isolation measures 36.0 dB typical. Second-order harmonic intercept achieves +52 dBm, while third-order two-tone intercept reaches +27 dBm, both typical.

Key Features Frequency range: 0.1–3.0 GHz DC supply: +17 V maximum; nominal 80 mA at +15 Vdc Maximum continuous RF input: +10 dBm Short-term input power (1 minute): 100 mW Peak power handling (3 μ sec): 0.25 W Thermal resistance: +24 °C/W typical (θ_{jc}) Storage and operating temperature: –62 to +125 °C Typical Applications Suitable for RF receiver chains, system test benches, and signal conditioning in defense and aerospace systems where gain stability and low-noise performance over wide bandwidth are critical. Compatibility & Integration TO-8 package enables direct integration into hybrid assemblies and test fixtures. MIL-PRF-38534 upscreening qualifies the device for high-reliability military procurement.

AC3064C Characteristics / Specifications

PARAMETER	VALUE
Model	AC3064C
Die Model	AC3064
Instrument Type	Wideband cascadable RF amplifier
Family	Teledyne Cougar AC3064
Frequency Class	to 3 GHz (AC3064C SMA listings)
Gain Class	18 dB (AC3064C listings)
Connectors	SMA
Package	SMA cascade housing (C suffix) on AC3064 die
Bias Class	+15 V Cougar cascadable TO-8/SMA class
Impedance Class	50 ohm
Manufacturer	Teledyne Cougar
Literature	Cougar AC3064C SMA cascade amplifier listings (3 GHz, 18 dB)
Sibling	AC4064C 800-4000 MHz 20 dB class in the same Cougar AC line
Application Class	wideband microwave gain
System Role	cascadable 50 ohm gain block
Documentation Type	AC3064C listing plus AC30xx family context
Brand Lineage	Teledyne Cougar
Year Class	AC3064C
Connector Class	SMA
Module Class	cascade amplifier
Host Class	50 ohm microwave chain
Related	AC4064C, AR3069B in the same Cougar catalog
Form Factor	SMA cascade module

AC3064C Specifications

PARAMETER	VALUE
Applications	SMA cascadable gain to 3 GHz in 50 ohm microwave chains.
Key Features	SMA cascade amplifier to 3 GHz
Technical Specifications	Model: AC3064C

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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PARAMETER	VALUE
Model	AC3064C
Die Model	AC3064
Instrument Type	Wideband cascadable RF amplifier
Family	Teledyne Cougar AC3064
Frequency Class	to 3 GHz (AC3064C SMA listings)
Gain Class	18 dB (AC3064C listings)
Connectors	SMA
Package	SMA cascade housing (C suffix) on AC3064 die
Bias Class	+15 V Cougar cascadable T0-8/SMA class
Impedance Class	50 ohm
Manufacturer	Teledyne Cougar
Literature	Cougar AC3064C SMA cascade amplifier listings (3 GHz, 18 dB)
Sibling	AC4064C 800-4000 MHz 20 dB class in the same Cougar AC line
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System Role	cascadable 50 ohm gain block
Documentation Type	AC3064C listing plus AC30xx family context
Brand Lineage	Teledyne Cougar
Year Class	AC3064C
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Module Class	cascade amplifier
Host Class	50 ohm microwave chain
Related	AC4064C, AR3069B in the same Cougar catalog
Form Factor	SMA cascade module
Notes	
From public Teledyne Cougar AC3064C listings (SMA, 3 GHz, 18 dB class). P1dB, NF, and supply current are on the AC3064 die data sheet; do not invent them.	

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
NAICS 423690 · 811210 · 541380
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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.