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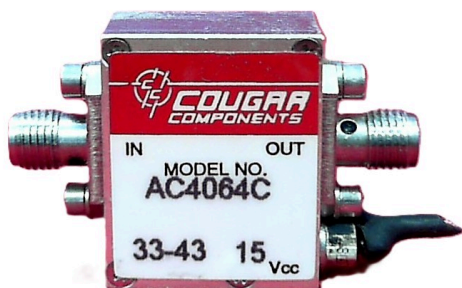
Data Sheet

August 15, 2026

COUGAR COMPONENTS

Cougar Components AC4064C

Teledyne Cougar AC4064C Cascadable Amplifier 800-4000 MHz TO-8 SMA The AC4064 / AC4064C is a Teledyne Cougar cascadable wideband amplifier. OEM AC4064 data sheet lists 800-4000 MHz (typical 0.75-4.2 GHz min frequency row), 50 ohm in/out, 20.0 dB high-gain class, +16.0 dBm medium-power / power-output min +16 dBm class, DC current 85 mA max (90 mA row), +15.0 V class bias, storage minus 62 to +125 C, maximum DC voltage +17 V, maximum continuous RF input +13 dBm, short-term input 125 mW (1 minute max), peak 0.5 W (3 s max), TO-8 4-pin package with SMA-connector C-suffix housings used on AC4064C cascade modules. Typical data referenced at 25 C, 2750 MHz. The AC4064 / AC4064C is a Teledyne Cougar cascadable wideband amplifier. OEM AC4064 data sheet lists 800-4000 MHz (typical 0.75-4.2 GHz min frequency row), 50 ohm in/out, 20.0 dB high-gain class, +16.0 dBm medium-power / power-output min +16 dBm class, DC current 85 mA max (90 mA row), +15.0 V class bias, storage minus 62 to +125 C, maximum DC voltage +17 V, maximum continuous RF input +13 dBm, short-term input 125 mW (1 minute max), peak 0.5 W (3 s max), TO-8 4-pin package with SMA-connector C-suffix housings used on AC4064C cascade modules. Typical data referenced at 25 C, 2750 MHz. Wideband 0.8-4 GHz cascadable gain in 50 ohm TO-8/SMA microwave chains.



MODEL

**Cougar
Components
AC4064C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC4064C

LISTING

<https://aumictechlabs.com/products/ac4064c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Cougar Components AC4064C is a RF amplifier operating across the 800 MHz to 4000 MHz band, engineered in chip and wire hybrid construction for cascadable multi-stage applications. This TO-8 packaged device delivers 20.0 dB minimum small signal gain with excellent gain flatness of ± 0.6 dB across 0–50° C, maintaining 19.0 dB gain over the extended -55 to +85° C temperature range. The AC4064C achieves a low noise figure of 3.0 dB (0–50° C), with power output at 1 dB compression rated at +16.0 dBm in standard conditions and +15.0 dBm extended temperature operation. Technical Specifications Frequency Range: 800 MHz to 4000 MHz Small Signal Gain: 20.0 dB minimum (0–50° C); 19.0 dB (-55 to +85° C); 18.0 dB guaranteed Gain Flatness: ± 0.6 dB (0–50° C); ± 0.7 dB (-55 to +85° C); ± 0.9 dB guaranteed Noise Figure: 3.0 dB maximum (0–50° C); 3.5 dB (-55 to +85° C); 4.0 dB guaranteed Power Output @ 1 dB Compression: +16.0 dBm (0–50° C); +15.0 dBm (-55 to +85° C); +14.5 dBm guaranteed Input/Output SWR: 1.5:1 (0–50° C); 1.8:1 (-55 to +85° C); 2.0:1 guaranteed Intermodulation Performance: Second order harmonic intercept +44 dBm; second order two-tone intercept +37 dBm; third order two-tone intercept +23 dBm DC Supply: +17 V maximum; 85 mA (0–50° C), 90 mA (-55 to +85° C), 95 mA guaranteed RF Input Power: +13 dBm continuous maximum; 125 mW short-term (1 min); 0.5 W peak (3 μ sec) Thermal Resistance (θ_{jc}): 15° C/W Key Features TO-8 hybrid package for board-level integration Stable gain performance across wide temperature range Low noise operation suitable for receiver frontend applications Controlled intermodulation for linear signal processing Typical Applications UHF and L-band receive amplification Multi-stage cascaded amplifier chains Satellite and terrestrial RF systems Signal conditioning in test and measurement Compatibility & Integration The AC4064C operates from a single +17 V supply with moderate quiescent current, making it compatible with standard laboratory and field test configurations. Cascadable design permits noise figure optimization through judicious stage selection.

AC4064C Characteristics / Specifications

PARAMETER	VALUE
Model	AC4064C
Die Model	AC4064
Instrument Type	Wideband cascadable RF amplifier
Family	Teledyne Cougar AC4064
Frequency Range	800-4000 MHz
Frequency Min Row	0.75-4.2 GHz minimum-frequency row on AC4064 sheet
Impedance	50 ohm input and output
Gain Class	20.0 dB high-gain
Output Power Class	+16.0 dBm medium power; power output min +16 dBm
Dc Current	85 mA max (90 mA row on sheet)
Bias	+15.0 V class
Typical Frequency	2750 MHz at 25 C
Package	TO-8 4-pin; AC4064C SMA cascade housing
Storage Temperature	minus 62 to +125 C
Maximum Dc Voltage	+17 V
Max Continuous Rf Input	+13 dBm
Max Short Term Input	125 mW, 1 minute max
Max Peak Power	0.5 W, 3 s max
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar AC4064 TO-8 cascadable amplifier data sheet
Application Class	wideband microwave gain
Connector Class	SMA on AC4064C cascade module
Sibling	AS4064 surface-mount sibling on the same sheet
System Role	cascadable 50 ohm gain block

AC4064C Specifications

PARAMETER	VALUE
Applications	Wideband 0.8-4 GHz cascadable gain in 50 ohm TO-8/SMA microwave chains.
Key Features	800-4000 MHz cascadable 50 ohm amplifier
Technical Specifications	Model: AC4064C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 62 to +125 C
Maximum Dc Voltage	+17 V
Max Continuous Rf Input	+13 dBm
Max Short Term Input	125 mW, 1 minute max
Max Peak Power	0.5 W, 3 s max
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar AC4064 TO-8 cascadable amplifier data sheet
Application Class	wideband microwave gain
Connector Class	SMA on AC4064C cascade module
Sibling	AS4064 surface-mount sibling on the same sheet
System Role	cascadable 50 ohm gain block Notes From Teledyne Cougar AC4064 data sheet (800-4000 MHz, 20 dB, +16 dBm class). Noise figure and exact S-parameters vs frequency are on that sheet's tables; do not invent NF dB.

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	AC4064C
Die Model	AC4064
Instrument Type	Wideband cascadable RF amplifier
Family	Teledyne Cougar AC4064
Frequency Range	800-4000 MHz
Frequency Min Row	0.75-4.2 GHz minimum-frequency row on AC4064 sheet
Impedance	50 ohm input and output
Gain Class	20.0 dB high-gain
Output Power Class	+16.0 dBm medium power; power output min +16 dBm
Dc Current	85 mA max (90 mA row on sheet)
Bias	+15.0 V class
Typical Frequency	2750 MHz at 25 C
Package	T0-8 4-pin; AC4064C SMA cascade housing
Storage Temperature	minus 62 to +125 C
Maximum Dc Voltage	+17 V
Max Continuous Rf Input	+13 dBm
Max Short Term Input	125 mW, 1 minute max
Max Peak Power	0.5 W, 3 s max
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar AC4064 T0-8 cascadable amplifier data sheet
Application Class	wideband microwave gain
Connector Class	SMA on AC4064C cascade module
Sibling	AS4064 surface-mount sibling on the same sheet
System Role	cascadable 50 ohm gain block

Notes

From Teledyne Cougar AC4064 data sheet (800-4000 MHz, 20 dB, +16 dBm class). Noise figure and exact S-parameters vs frequency are on that sheet's tables; do not invent NF dB.

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