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Data Sheet

August 15, 2026

COUGAR COMPONENTS

Cougar Components AC2066C

Teledyne Cougar AC2066C 10 to 2000 MHz Cascadable Amplifier The Teledyne Cougar AC2066 (AC2066C screened/package build) is a 50 ohm cascadable amplifier. The 2016 Cougar selection guide lists 10 to 2000 MHz, gain typically 17.0 dB with 16.0 dB minimum at 0 to 50 C and 15.0 dB minimum at minus 55 to plus 85 C, flatness 0.7/1.0 dB, noise figure 5.3/6.2/6.7 dB, P1dB 15.0/14.0/14.0 dBm, reverse isolation typically 29 dB, IP3/IP2 typically 27.5/43 dBm, SWR 1.8/2.0, and plus 15 V at typically 65 mA. 10 MHz to 2 GHz 50 ohm gain stages in instruments and communications hardware. The Teledyne Cougar AC2066 (AC2066C screened/package build) is a 50 ohm cascadable amplifier. The 2016 Cougar selection guide lists 10 to 2000 MHz, gain typically 17.0 dB with 16.0 dB minimum at 0 to 50 C and 15.0 dB minimum at minus 55 to plus 85 C, flatness 0.7/1.0 dB, noise figure 5.3/6.2/6.7 dB, P1dB 15.0/14.0/14.0 dBm, reverse isolation typically 29 dB, IP3/IP2 typically 27.5/43 dBm, SWR 1.8/2.0, and plus 15 V at typically 65 mA. 10 MHz to 2 GHz 50 ohm gain stages in instruments and communications hardware.



MODEL

**Cougar
Components
AC2066C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC2066C

LISTING

<https://aumictechlabs.com/products/ac2066c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Cougar Components AC2066C is a thin-film amplifier engineered for aerospace, space, military, industrial, and commercial applications requiring wideband signal amplification across demanding temperature environments. This TO-8 packaged device delivers consistent gain and low noise across an 8–2100 MHz frequency span, with performance specifications tailored to both standard operating conditions (0–50 °C) and extended military temperature ranges (–55 to +85 °C). Technical Specifications Frequency Range: 8–2100 MHz Small Signal Gain: 17.0 dB (0–50 °C); 16.0 dB (–55 to +85 °C) Gain Flatness: ± 0.25 dB (0–50 °C); ± 0.7 dB (–55 to +85 °C) Noise Figure: 5.3 dB (0–50 °C); 6.2 dB (–55 to +85 °C) Power Output @ 1 dB Compression: +15.0 dBm (0–50 °C); +14.0 dBm (–55 to +85 °C) Reverse Isolation: 29.0 dB Third Order Two-Tone Intercept Point: +27.5 dBm Second Order Harmonic Intercept Point: +48 dBm Second Order Two-Tone Intercept Point: +43 dBm Input SWR: $<1.5:1$ (0–50 °C); $1.8:1$ (–55 to +85 °C) Output SWR: $<1.5:1$ (0–50 °C); $1.8:1$ (–55 to +85 °C) DC Current: 65.0 mA (0–50 °C); 69.0 mA (–55 to +85 °C) Supply Voltage: +18 V maximum Maximum Continuous RF Input Power: +10 dBm Maximum Case Temperature: +125 °C Storage Temperature: –62 to +125 °C Key Features Dual operating temperature ranges with specified performance across full military envelope Excellent reverse isolation and linearity characteristics for demanding signal environments Low noise performance suitable for receive-path applications Compact TO-8 package for space-constrained installations 100% screening and Group A Testing per Teledyne Cougar process flows Typical Applications Aerospace and space communication systems Military radar and signal intelligence equipment Industrial RF test and measurement Commercial broadband amplification Compatibility & Integration Teledyne Cougar AC2066C amplifiers meet the performance intent of comparable industry part numbers but are not direct form-fit-function replacements. All units receive standardized 100% screening and Group A Testing per established Teledyne Cougar qualification flows.

AC2066C Characteristics / Specifications

PARAMETER	VALUE
Model	AC2066C
Base Model	AC2066
Instrument Type	Cascadable RF amplifier
Frequency Range	10 to 2000 MHz
System Impedance	50 ohm
Gain Typical	17.0 dB
Gain Min 0 To 50 C	16.0 dB
Gain Min Minus 55 To 85 C	15.0 dB
Gain Flatness Typical	0.7 dB
Gain Flatness Max	1.0 dB
Noise Figure Typical	5.3 dB
Noise Figure Max 0 To 50 C	6.2 dB
Noise Figure Max Minus 55 To 85 C	6.7 dB
P1db Typical	15.0 dBm
P1db Min 0 To 50 C	14.0 dBm
P1db Min Minus 55 To 85 C	14.0 dBm
Reverse Isolation Typical	29 dB
Third Second Intercept	27.5/43 dBm typical
Swr Typical	1.8
Swr Max	2.0
Dc Voltage	plus 15 V nominal
Dc Current	65 mA typical
Package Class	AC TO-8 amplifier
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar Amplifiers Product Selection Guide 2016 AC2066 row

PARAMETER	VALUE
Family	Cougar AC cascadable amplifiers
Form Factor	TO-8 cascadable amplifier
System Role	broadband RF gain
Brand Lineage	Cougar Components Teledyne Microwave
Screening Class	C suffix screened/package build of AC2066
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	AC2066C
Base Model	AC2066
Instrument Type	Cascadable RF amplifier
Frequency Range	10 to 2000 MHz
System Impedance	50 ohm
Gain Typical	17.0 dB
Gain Min 0 To 50 C	16.0 dB
Gain Min Minus 55 To 85 C	15.0 dB
Gain Flatness Typical	0.7 dB
Gain Flatness Max	1.0 dB
Noise Figure Typical	5.3 dB
Noise Figure Max 0 To 50 C	6.2 dB
Noise Figure Max Minus 55 To 85 C: 6.7 dB	
Specifications	
PARAMETER	VALUE
P1db Typical	15.0 dBm
P1db Min 0 To 50 C	14.0 dBm
P1db Min Minus 55 To 85 C	14.0 dBm
Reverse Isolation Typical	29 dB
Third Second Intercept	27.5/43 dBm typical
Swr Typical	1.8
Swr Max	2.0
Dc Voltage	plus 15 V nominal
Dc Current	65 mA typical
Package Class	AC T0-8 amplifier

PARAMETER	VALUE
Manufacturer	Teledyne Cougar
Literature	Teledyne Cougar Amplifiers Product Selection Guide 2016 AC2066 row
Family	Cougar AC cascadable amplifiers
Form Factor	T0-8 cascadable amplifier
System Role	broadband RF gain
Brand Lineage	Cougar Components Teledyne Microwave
Screening Class	C suffix screened/package build of AC2066
Operating Mode	50 ohm small signal amplifier

Notes

Numeric rows from the Teledyne Cougar 2016 amplifier selection guide AC2066 line (10 to 2000 MHz, 17.0/16.0/15.0 dB, NF 5.3/6.2/6.7 dB, P1dB 15.0/14.0 dBm, 15 V / 65 mA). S-parameters are on the AC2066 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 ·
30-day returns
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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.