

## FEATURES

**Very low voltage noise 2.8 nV/ $\sqrt{\text{Hz}}$  @ 1 kHz**  
**Rail-to-rail output swing**  
**Low input bias current: 2 nA maximum**  
**Very low offset voltage: 12  $\mu\text{V}$  typical**  
**Low input offset drift: 0.6  $\mu\text{V}/^\circ\text{C}$  maximum**  
**Very high gain: 120 dB**  
**Wide bandwidth: 10 MHz typical**  
 **$\pm 5\text{ V}$  to  $\pm 18\text{ V}$  operation**

## APPLICATIONS

**Precision instrumentation**  
**PLL filters**  
**Laser diode control loops**  
**Strain gage amplifiers**  
**Medical instrumentation**  
**Thermocouple amplifiers**

## GENERAL DESCRIPTION

The AD8676 precision operational amplifier offers ultralow offset, drift, and voltage noise combined with very low input bias currents over the full operating temperature range. The AD8676 is a precision, wide bandwidth op amp featuring rail-to-rail output swings and very low noise. Operation is fully specified from  $\pm 5\text{ V}$  to  $\pm 15\text{ V}$ .

The AD8676 features a rail-to-rail output like that of the OP184, but with wide bandwidth and even lower voltage noise, combined with the precision and low power consumption like that of the industry-standard OP07 amplifier. Unlike other low noise, rail-to-rail op amps, the AD8676 has very low input bias current and low input current noise.

With typical offset voltage of only 12  $\mu\text{V}$ , offset drift of 0.2  $\mu\text{V}/^\circ\text{C}$ , and noise of only 0.10  $\mu\text{V}$  p-p (0.1 Hz to 10 Hz), the AD8676 is perfectly suited for applications where large error sources cannot be tolerated. Precision instrumentation, PLL and other precision filter circuits, position and pressure sensors, medical instrumentation, and strain gage amplifiers benefit greatly from the very low noise, low input bias current, and wide bandwidth. Many systems can take advantage of the low noise, dc precision, and rail-to-rail output swing provided by the AD8676 to maximize SNR and dynamic range.

### Rev. C

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## PIN CONFIGURATIONS

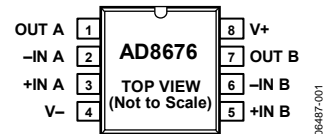


Figure 1. 8-Lead SOIC\_N (R-8)



Figure 2. 8-Lead MSOP (RM-8)

The smaller packages and low power consumption afforded by the AD8676 allow maximum channel density or minimum board size for space-critical equipment.

The AD8676 is specified for the extended industrial temperature range ( $-40^\circ\text{C}$  to  $+125^\circ\text{C}$ ). The AD8676 is available in the 8-lead MSOP, and the popular 8-lead, narrow SOIC; both of which are lead-free packages. MSOP packaged devices are only available in tape and reel format.

For the single version of this ultraprecision, rail-to-rail op amp, see the [AD8675](#) data sheet.

The [AD8675](#) and AD8676 are members of a growing series of low noise op amps offered by Analog Devices, Inc.

**Table 1. Voltage Noise**

| Package | 0.9 nV                | 1.1 nV                 | 1.8 nV                    | 2.8 nV                 | 3.8 nV                 |
|---------|-----------------------|------------------------|---------------------------|------------------------|------------------------|
| Single  | <a href="#">AD797</a> | <a href="#">AD8597</a> | <a href="#">ADA4004-1</a> | <a href="#">AD8675</a> | <a href="#">AD8671</a> |
| Dual    |                       | <a href="#">AD8599</a> | <a href="#">ADA4004-2</a> | <a href="#">AD8676</a> | <a href="#">AD8672</a> |
| Quad    |                       |                        | <a href="#">ADA4004-4</a> |                        | <a href="#">AD8674</a> |

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## REVISION HISTORY

### 8/11—Rev. B to Rev. C

|  |   |
|--|---|
| Change to Y-Axis Label, Figure 9 ..... | 7 |
|--|---|

### 11/09—Rev. A to Rev. B

|  |    |
|--|----|
| Changes to General Description Section ..... | 1  |
| Added Table 1; Renumbered Sequentially ..... | 1  |
| Updated Outline Dimensions .....             | 11 |
| Changes to Ordering Guide .....              | 11 |

### 4/08—Rev. 0 to Rev. A

|  |    |
|--|----|
| Changes to Table 1 .....                             | 3  |
| Changes to Table 2.....                              | 4  |
| Changes to Figure 6, Figure 7, Figure 8 .....        | 6  |
| Changes to Figure 9 through Figure 12 .....          | 7  |
| Changes to Figure 21, Figure 22, and Figure 25 ..... | 9  |
| Added Figure 26, Renumbered Sequentially .....       | 9  |
| Changes to Figure 27.....                            | 10 |
| Added Figure 28, Renumbered Sequentially .....       | 10 |

### 10/06—Revision 0: Initial Version

## SPECIFICATIONS

### ELECTRICAL SPECIFICATIONS

$V_S = \pm 5.0\text{ V}$ ,  $V_{CM} = 0\text{ V}$ ,  $V_O = 0\text{ V}$ ,  $T_A = +25^\circ\text{C}$ , unless otherwise specified.

Table 2.

| Parameter                     | Symbol                   | Conditions  | Min   | Typ      | Max   | Unit                         |
|-------------------------------|--------------------------|---|-------|----------|-------|------------------------------|
| <b>INPUT CHARACTERISTICS</b>  |                          |   |       |          |       |                              |
| Offset Voltage                | $V_{OS}$                 |   |       | 12       | 50    | $\mu\text{V}$                |
| B Grade (SOIC)                |                          |   |       |          | 60    | $\mu\text{V}$                |
| B Grade (MSOP)                |                          |   |       |          | 100   | $\mu\text{V}$                |
| A Grade (SOIC, MSOP)          |                          |   |       |          |       |                              |
| Offset Voltage                | $V_{OS}$                 | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  |       | 15       | 160   | $\mu\text{V}$                |
| B Grade (SOIC, MSOP)          |                          |   |       |          | 250   | $\mu\text{V}$                |
| A Grade (SOIC, MSOP)          |                          |   |       |          |       |                              |
| Input Bias Current            | $I_B$                    |   | -2    |          | +2    | nA                           |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  | -5.5  |          | +5.5  | nA                           |
| Input Offset Current          | $I_{OS}$                 |   | -1    |          | +1    | nA                           |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  | -2.8  |          | +2.8  | nA                           |
| Input Voltage Range           |                          |   | -3.0  |          | +3.0  | V                            |
| Common-Mode Rejection Ratio   | CMRR                     | $V_{CM} = -3.0\text{ V to }+3.0\text{ V}$<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$                                     | 105   | 130      |       | dB                           |
|                               |                          |   | 105   |          |       | dB                           |
| Open-Loop Gain                | $A_{VO}$                 | $R_L = 2\text{ k}\Omega$ to ground,<br>$V_O = -3.5\text{ V to }+3.5\text{ V}$<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$ | 120   | 126      |       | dB                           |
|                               |                          |   | 117   |          |       | dB                           |
| Offset Voltage Drift          | $\Delta V_{OS}/\Delta T$ | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  |       | 0.2      | 0.6   | $\mu\text{V}/^\circ\text{C}$ |
| <b>OUTPUT CHARACTERISTICS</b> |                          |   |       |          |       |                              |
| Output Voltage High           | $V_{OH}$                 | $R_L = 10\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   | +4.90 | +4.95    |       | V                            |
|                               |                          |   | +4.85 |          |       | V                            |
|                               |                          | $R_L = 2\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  | +4.80 | +4.89    |       | V                            |
|                               |                          |   | +4.75 |          |       | V                            |
| Output Voltage Low            | $V_{OL}$                 | $R_L = 10\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   |       | -4.98    | -4.90 | V                            |
|                               |                          |   |       |          | -4.85 | V                            |
|                               |                          | $R_L = 2\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  |       | -4.91    | -4.86 | V                            |
|                               |                          |   |       |          | -4.82 | V                            |
| Short-Circuit Limit           | $I_{SC}$                 |   |       | +40      |       | mA                           |
| Output Current                | $I_O$                    |   |       | $\pm 20$ |       | mA                           |
| <b>POWER SUPPLY</b>           |                          |   |       |          |       |                              |
| Power Supply Rejection Ratio  | PSRR                     | $V_S = \pm 5.0\text{ V to } \pm 15.0\text{ V}$<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$                                | 106   | 120      |       | dB                           |
|                               |                          |   | 106   | 120      |       | dB                           |
| Supply Current/Amplifier      | $I_{SY}$                 | $V_O = 0\text{ V}$<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$  |       | 2.5      | 3.2   | mA                           |
|                               |                          |   |       |          | 3.8   | mA                           |
| <b>DYNAMIC PERFORMANCE</b>    |                          |   |       |          |       |                              |
| Slew Rate                     | SR                       | $R_L = 2\text{ k}\Omega$  |       | 2.5      |       | V/ $\mu\text{s}$             |
| Gain Bandwidth Product        | GBP                      |   |       | 10       |       | MHz                          |
| <b>NOISE PERFORMANCE</b>      |                          |   |       |          |       |                              |
| Voltage Noise                 | $e_n$ p-p                | 0.1 Hz to 10 Hz   |       | 0.1      |       | $\mu\text{V p-p}$            |
| Voltage Noise Density         | $e_n$                    | $f = 1\text{ kHz}$  |       | 2.8      |       | nV/ $\sqrt{\text{Hz}}$       |
| Current Noise Density         | $i_n$                    | $f = 10\text{ Hz}$  |       | 0.3      |       | pA/ $\sqrt{\text{Hz}}$       |

$V_S = \pm 15\text{ V}$ ,  $V_{CM} = 0\text{ V}$ ,  $V_O = 0\text{ V}$ ,  $T_A = +25^\circ\text{C}$ , unless otherwise specified.

Table 3.

| Parameter                     | Symbol                   | Conditions   | Min              | Typ      | Max    | Unit                         |
|-------------------------------|--------------------------|--|------------------|----------|--------|------------------------------|
| <b>INPUT CHARACTERISTICS</b>  |                          |  |                  |          |        |                              |
| Offset Voltage                | $V_{OS}$                 |  |                  | 12       | 50     | $\mu\text{V}$                |
| B Grade (SOIC)                |                          |  |                  |          | 60     | $\mu\text{V}$                |
| B Grade (MSOP)                |                          |  |                  |          | 100    | $\mu\text{V}$                |
| A Grade (SOIC, MSOP)          |                          |  |                  |          |        |                              |
| Offset Voltage                | $V_{OS}$                 | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   |                  | 15       | 160    | $\mu\text{V}$                |
| B Grade (SOIC, MSOP)          |                          |  |                  |          | 250    | $\mu\text{V}$                |
| A Grade (SOIC, MSOP)          |                          |  |                  |          |        |                              |
| Input Bias Current            | $I_B$                    |  | -2               |          | +2     | nA                           |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   | -4.5             |          | +4.5   | nA                           |
| Input Offset Current          | $I_{OS}$                 |  | -1               |          | +1     | nA                           |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   | -2.8             |          | +2.8   | nA                           |
| Input Voltage Range           |                          |  | -12.5            |          | +12.5  | V                            |
| Common-Mode Rejection Ratio   | CMRR                     | $V_{CM} = -12.5\text{ V to } +12.5\text{ V}$   | 111              | 130      |        | dB                           |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   | 107              | 130      |        | dB                           |
| Open-Loop Gain                | $A_{VO}$                 | $R_L = 2\text{ k}\Omega$ to ground,<br>$V_O = -13.5\text{ V to } +13.5\text{ V}$                       | 123              | 132      |        | dB                           |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   | 117              |          |        | dB                           |
| Offset Voltage Drift          | $\Delta V_{OS}/\Delta T$ | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   |                  | 0.2      | 0.6    | $\mu\text{V}/^\circ\text{C}$ |
| <b>OUTPUT CHARACTERISTICS</b> |                          |  |                  |          |        |                              |
| Output Voltage High           | $V_{OH}$                 | $R_L = 10\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$            | +14.85<br>+14.80 | +14.92   |        | V<br>V                       |
|                               |                          | $R_L = 2\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$             | +14.60<br>+14.40 | +14.75   |        | V<br>V                       |
| Output Voltage Low            | $V_{OL}$                 | $R_L = 10\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$            |                  | -14.96   | -14.94 | V<br>V                       |
|                               |                          | $R_L = 2\text{ k}\Omega$ to ground<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$             |                  | -14.85   | -14.75 | V<br>V                       |
|                               |                          | $-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$   |                  |          | -14.60 | V                            |
| Short-Circuit Limit           | $I_{SC}$                 |  |                  | +40      |        | mA                           |
| Output Current                | $I_O$                    |  |                  | $\pm 20$ |        | mA                           |
| <b>POWER SUPPLY</b>           |                          |  |                  |          |        |                              |
| Power Supply Rejection Ratio  | PSRR                     | $V_S = \pm 5.0\text{ V to } \pm 15.0\text{ V}$<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$ | 106              | 120      |        | dB<br>dB                     |
| Supply Current/Amplifier      | $I_{SY}$                 | $V_O = 0\text{ V}$<br>$-40^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$                             |                  | 2.7      | 3.4    | mA<br>mA                     |
|                               |                          |  |                  |          | 4.2    |                              |
| <b>DYNAMIC PERFORMANCE</b>    |                          |  |                  |          |        |                              |
| Slew Rate                     | SR                       | $R_L = 10\text{ k}\Omega$  |                  | 2.5      |        | V/ $\mu\text{s}$             |
| Gain Bandwidth Product        | GBP                      |  |                  | 10       |        | MHz                          |
| <b>NOISE PERFORMANCE</b>      |                          |  |                  |          |        |                              |
| Voltage Noise                 | $e_n$ p-p                | 0.1 Hz to 10 Hz  |                  | 0.1      |        | $\mu\text{V p-p}$            |
| Voltage Noise Density         | $e_n$                    | $f = 1\text{ kHz}$   |                  | 2.8      |        | nV/ $\sqrt{\text{Hz}}$       |
| Current Noise Density         | $i_n$                    | $f = 10\text{ Hz}$   |                  | 0.3      |        | pA/ $\sqrt{\text{Hz}}$       |

## ABSOLUTE MAXIMUM RATINGS

Table 4.

| Parameter                                  | Rating          |
|--|-----------------|
| Supply Voltage                             | ±18 V           |
| Input Voltage                              | ±V supply       |
| Differential Input Voltage                 | ±0.7 V          |
| Output Short-Circuit Duration to GND       | Indefinite      |
| Storage Temperature Range                  |                 |
| RM, R Packages                             | −65°C to +150°C |
| Operating Temperature Range                | −40°C to +125°C |
| Junction Temperature Range                 |                 |
| RM, R Packages                             | −65°C to +150°C |
| Lead Temperature Range (Soldering, 10 sec) | 300°C           |

Stresses above those listed under Absolute Maximum Ratings may cause permanent damage to the device. This is a stress rating only; functional operation of the device at these or any other conditions above those indicated in the operational section of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

## THERMAL RESISTANCE

Table 5. Thermal Resistance

| Package Type      | $\theta_{JA}$ | $\theta_{JC}$ | Unit |
|-------------------|---------------|---------------|------|
| 8-Lead MSOP (RM)  | 210           | 45            | °C/W |
| 8-Lead SOIC_N (R) | 158           | 43            | °C/W |

## POWER SEQUENCING

The op amp supplies must be established simultaneously with, or before, any input signals are applied. If this is not possible, the input current must be limited to 10 mA.

## ESD CAUTION



**ESD (electrostatic discharge) sensitive device.** Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

# TYPICAL PERFORMANCE CHARACTERISTICS

$\pm 15\text{ V}$  and  $\pm 5\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise specified.

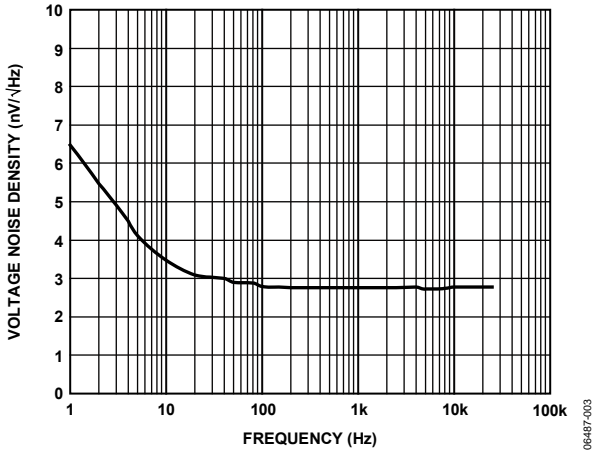


Figure 3. Voltage Noise Density vs. Frequency

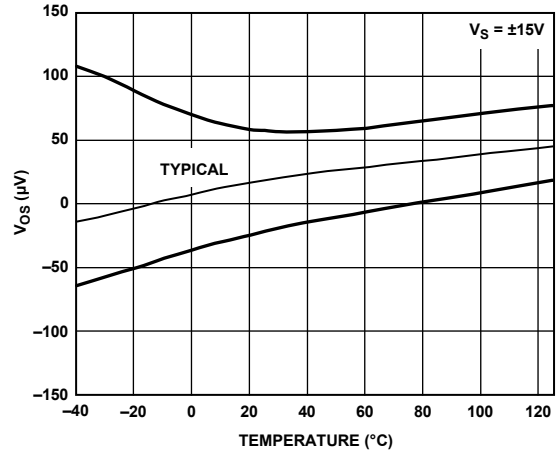


Figure 6. Offset Voltage vs. Temperature

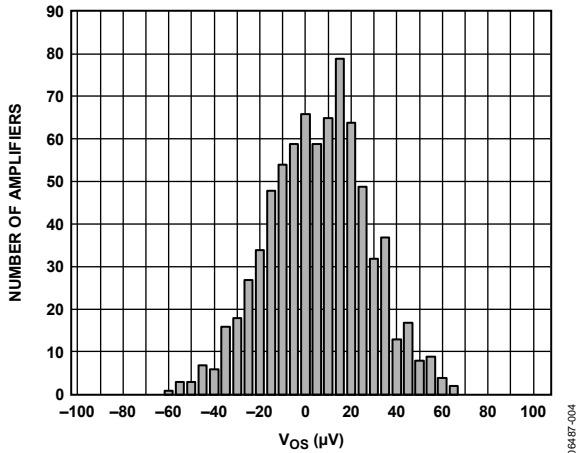


Figure 4. Input Offset Voltage Distribution

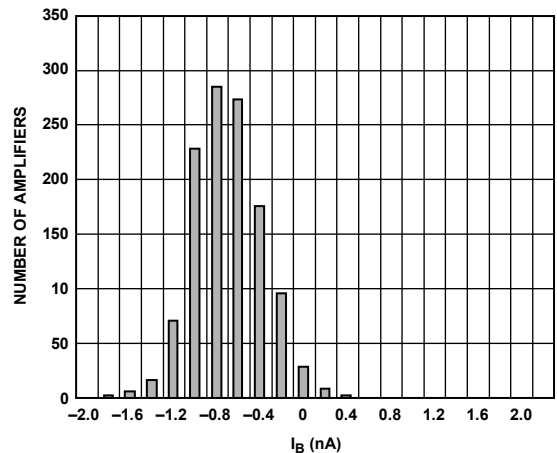


Figure 7. Input Bias Current,  $V_{SY} = \pm 15\text{ V}$

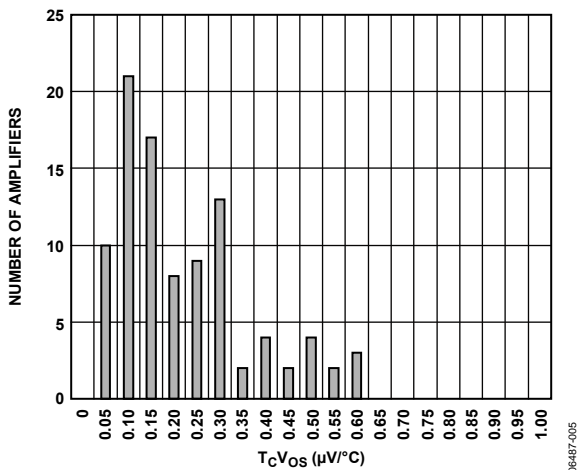


Figure 5.  $T_c V_{OS}$  Distribution

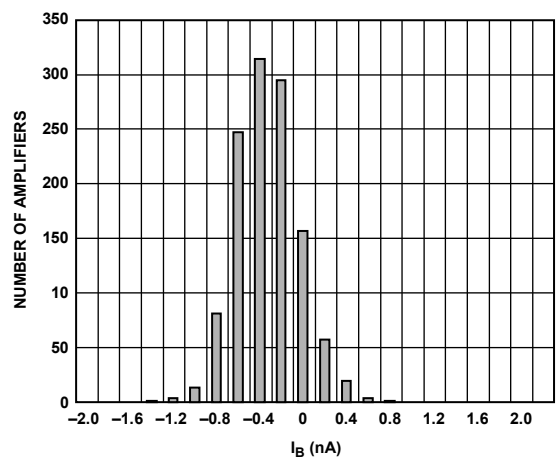


Figure 8. Input Bias Current,  $V_{SY} = \pm 5\text{ V}$

$\pm 15\text{ V}$  and  $\pm 5\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise specified.

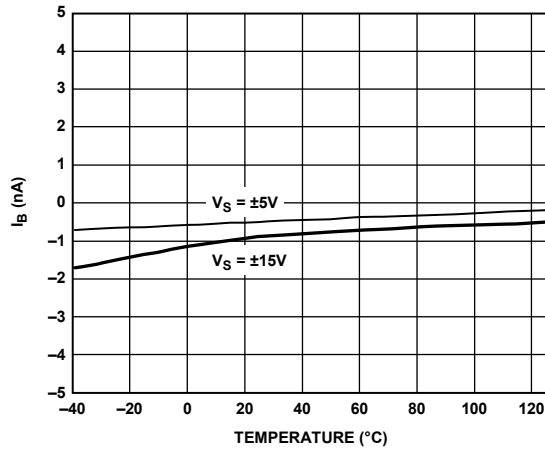


Figure 9. Input Bias Current vs. Temperature

06487-09

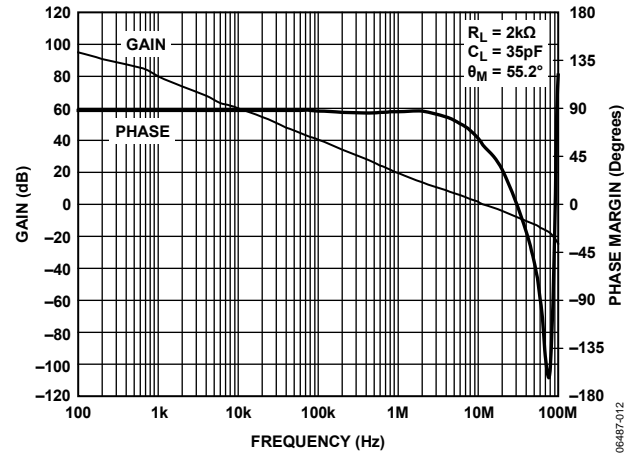


Figure 12. Gain and Phase vs. Frequency

06487-012

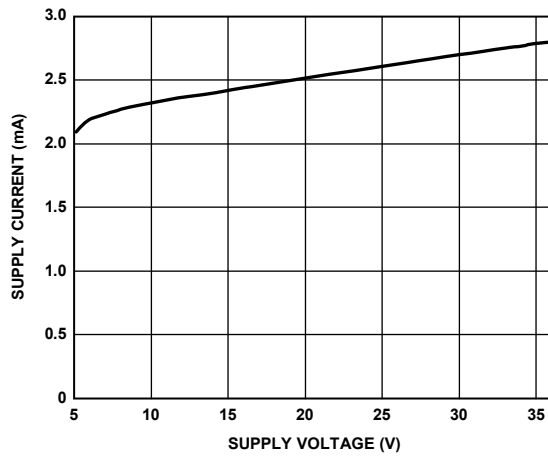


Figure 10. Supply Current vs. Total Supply Voltage

06487-10

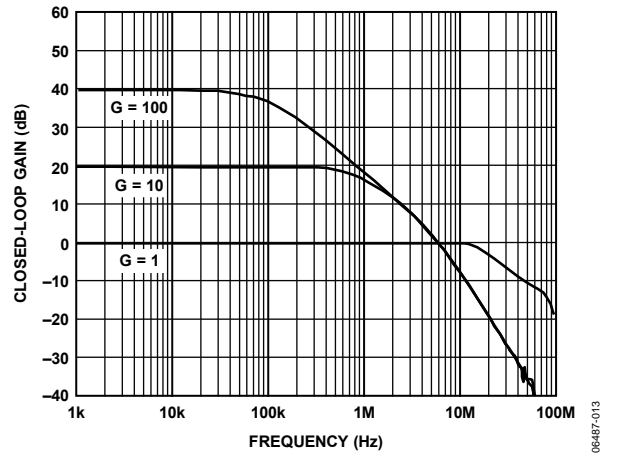


Figure 13. Closed-Loop Gain vs. Frequency

06487-013

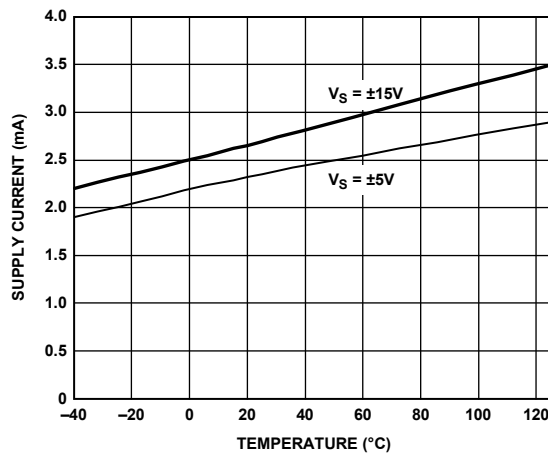


Figure 11. Supply Current vs. Temperature

06487-11

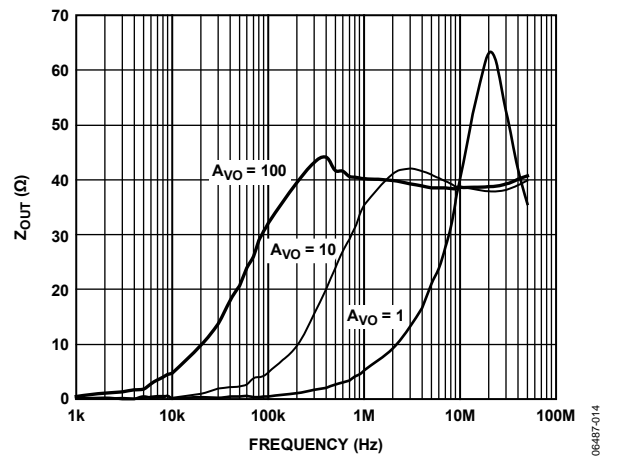


Figure 14.  $Z_{OUT}$  vs. Frequency

06487-014

$\pm 15\text{ V}$  and  $\pm 5\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise specified.

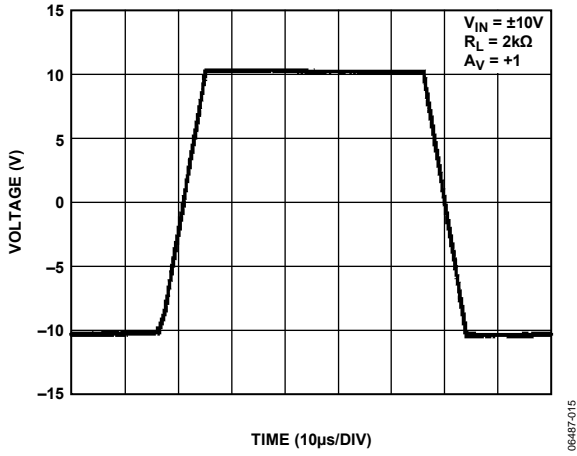


Figure 15. Large Signal Transient Response,  $V_{SY} = \pm 15\text{ V}$

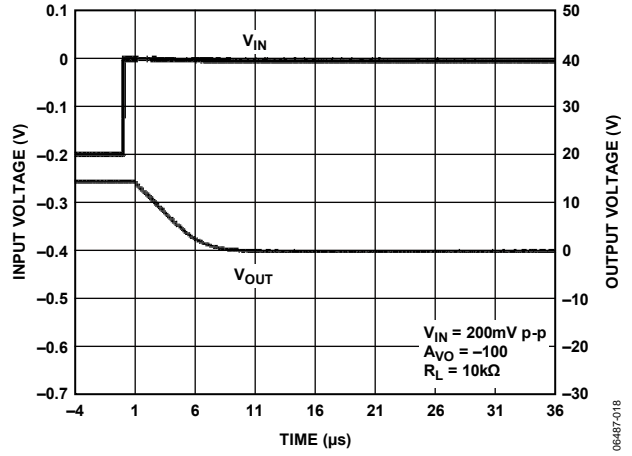


Figure 18. Positive Overtolerance Recovery

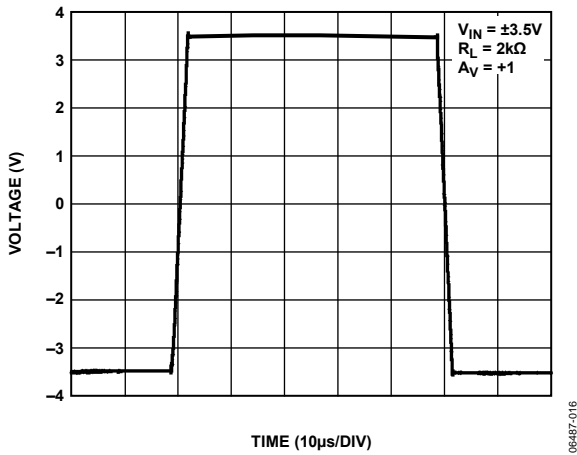


Figure 16. Large Signal Transient Response,  $V_{SY} = \pm 5\text{ V}$

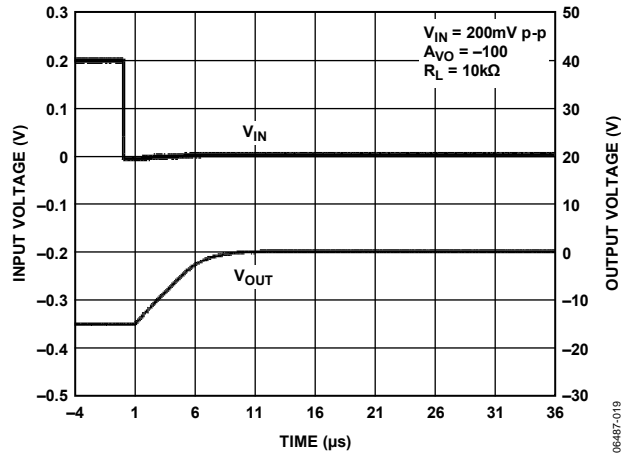


Figure 19. Negative Overtolerance Recovery

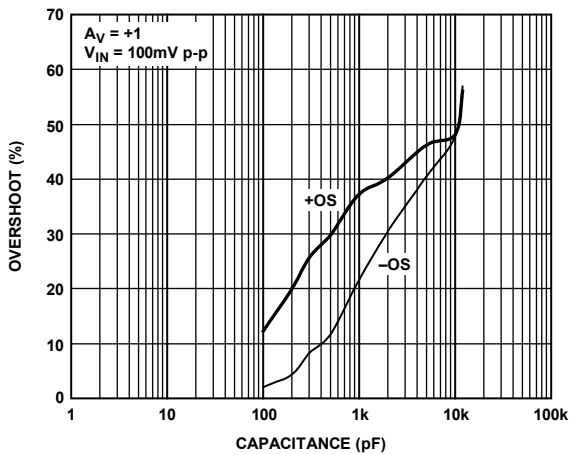


Figure 17. Small Signal Overshoot vs. Load Capacitance

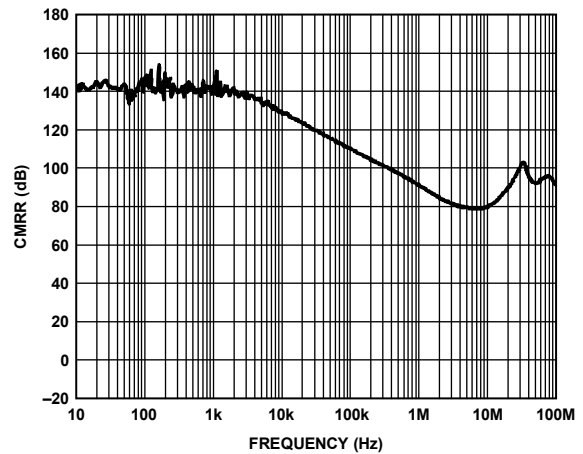


Figure 20. CMRR vs. Frequency



$\pm 15\text{ V}$  and  $\pm 5\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise specified.

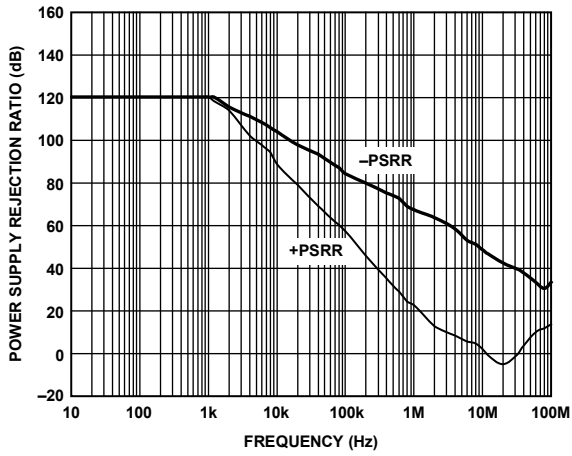


Figure 21. Power Supply Rejection Ratio vs. Frequency

06487-021

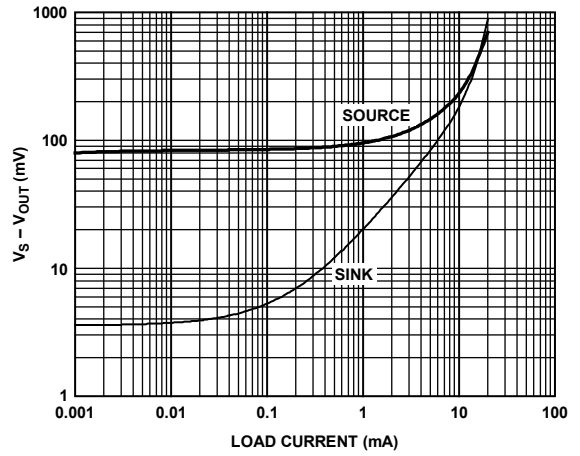


Figure 24. Output Saturation Voltage vs. Output Load Current

06487-024

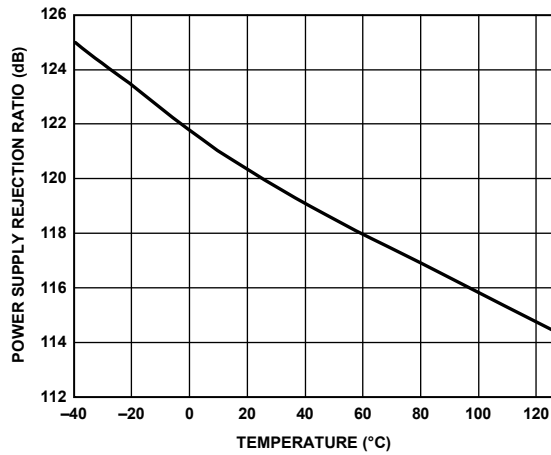


Figure 22. Power Supply Rejection Ratio vs. Temperature

06487-122

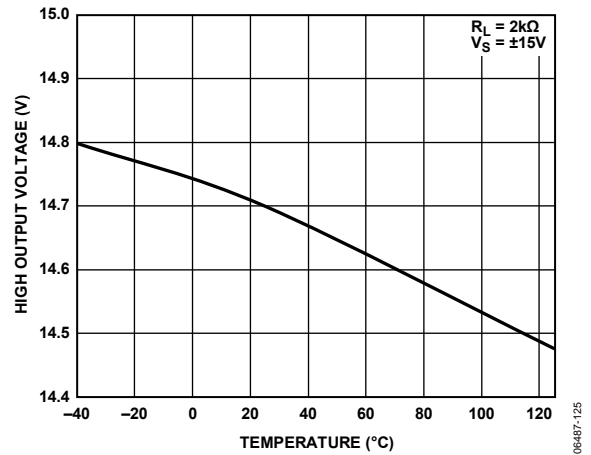


Figure 25. High Output Voltage,  $V_{OH}$  vs. Temperature,  $V_S = \pm 15\text{ V}$

06487-125

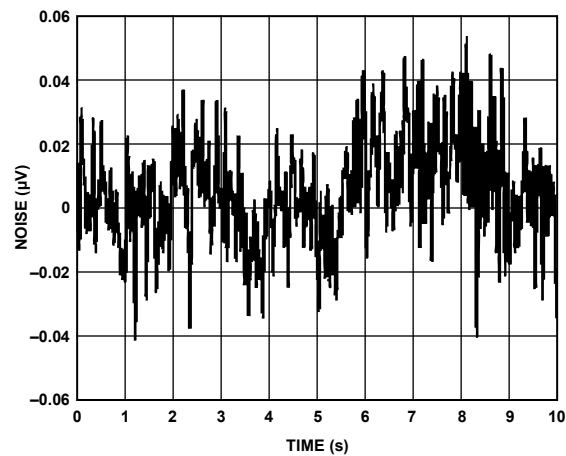


Figure 23. Voltage Noise (0.1 Hz to 10 Hz)

06487-023

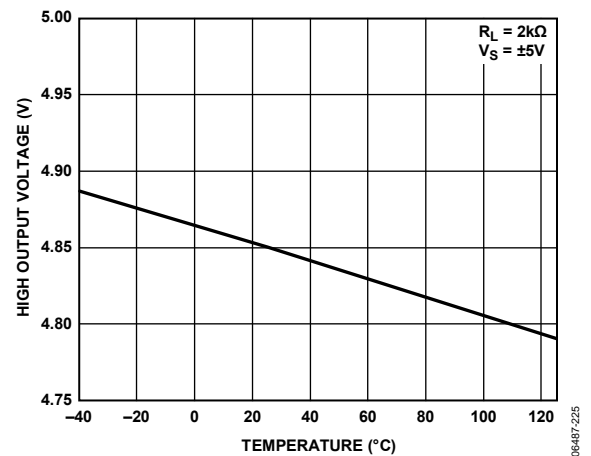


Figure 26. High Output Voltage,  $V_{OH}$  vs. Temperature,  $V_S = \pm 5\text{ V}$

06487-225

$\pm 15\text{ V}$  and  $\pm 5\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise specified.

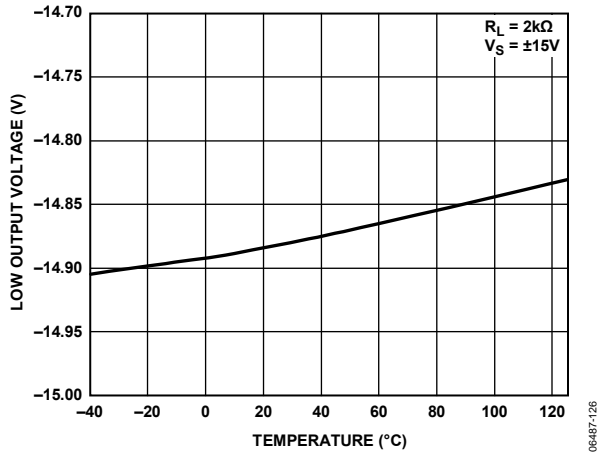


Figure 27. Low Output Voltage,  $V_{OL}$  vs. Temperature,  $V_S = \pm 15\text{ V}$

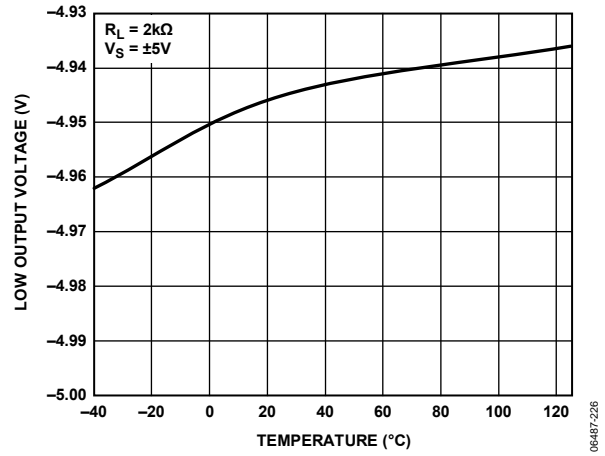
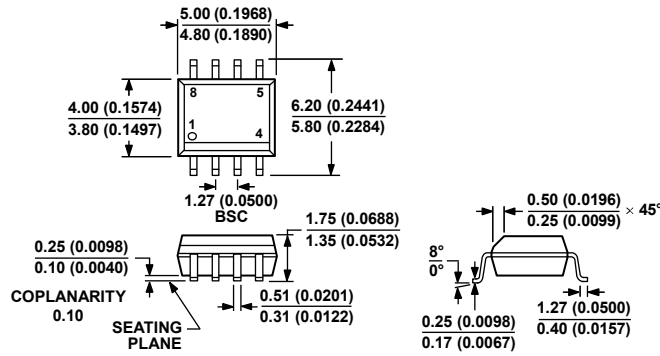


Figure 28. Low Output Voltage,  $V_{OL}$  vs. Temperature,  $V_S = \pm 5\text{ V}$

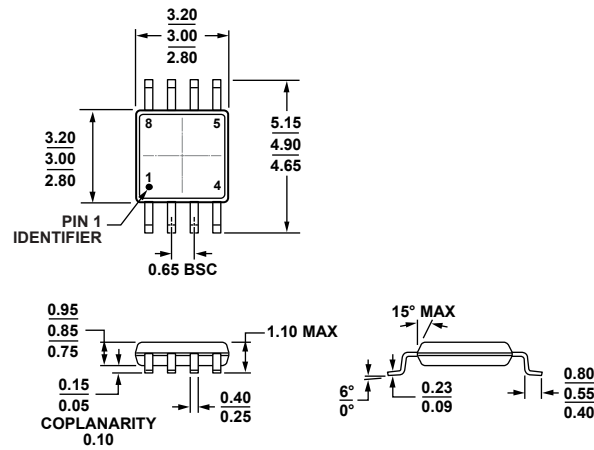
OUTLINE DIMENSIONS



COMPLIANT TO JEDEC STANDARDS MS-012-AA  
 CONTROLLING DIMENSIONS ARE IN MILLIMETERS; INCH DIMENSIONS (IN PARENTHESES) ARE ROUNDED-OFF MILLIMETER EQUIVALENTS FOR REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN.

Figure 29. 8-Lead Standard Small Outline Package [SOIC\_N] Narrow Body (R-8)  
 Dimensions shown in millimeters and (inches)

012407-A



COMPLIANT TO JEDEC STANDARDS MO-187-AA

Figure 30. 8-Lead Mini Small Outline Package [MSOP] (RM-8)  
 Dimensions shown in millimeters

100709-B

ORDERING GUIDE

| Model <sup>1</sup> | Temperature Range | Package Description                            | Package Option | Branding |
|--------------------|-------------------|--|----------------|----------|
| AD8676ARMZ         | -40°C to +125°C   | 8-Lead Mini Small Outline Package [MSOP]       | RM-8           | A13      |
| AD8676ARMZ-REEL    | -40°C to +125°C   | 8-Lead Mini Small Outline Package [MSOP]       | RM-8           | A13      |
| AD8676ARZ          | -40°C to +125°C   | 8-Lead Standard Small Outline Package [SOIC_N] | R-8            |          |
| AD8676ARZ-REEL     | -40°C to +125°C   | 8-Lead Standard Small Outline Package [SOIC_N] | R-8            |          |
| AD8676ARZ-REEL7    | -40°C to +125°C   | 8-Lead Standard Small Outline Package [SOIC_N] | R-8            |          |
| AD8676BRMZ         | -40°C to +125°C   | 8-Lead Mini Small Outline Package [MSOP]       | RM-8           | A1L      |
| AD8676BRMZ-REEL    | -40°C to +125°C   | 8-Lead Mini Small Outline Package [MSOP]       | RM-8           | A1L      |
| AD8676BRZ          | -40°C to +125°C   | 8-Lead Standard Small Outline Package [SOIC_N] | R-8            |          |
| AD8676BRZ-REEL     | -40°C to +125°C   | 8-Lead Standard Small Outline Package [SOIC_N] | R-8            |          |
| AD8676BRZ-REEL7    | -40°C to +125°C   | 8-Lead Standard Small Outline Package [SOIC_N] | R-8            |          |

<sup>1</sup> Z = RoHS Compliant Part.

**NOTES**

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Authorized Distributor

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