

## COMLINEAR® High Performance Amplifiers

CADEKA's focus is leading edge analog solutions. Analog is the essence of human experience, it is at the core of our senses...sound, vision, and touch. High performance analog products enhance audio, video, and environmental sensing applications. Cadeka's product focus, amplifiers, are at the core of analog: sensing, amplifying, and conditioning the analog signals present in the systems that engineers design to interface electronics to the analog world. Our theme is "Amplify the Human Experience.™" We are amplifier experts and we are absolutely passionate about being successful with our core competency. - Gary, Ross, CEO



| Part Number | No. of Amps | Power Down | Rail-to-Rail | Typical       |               |           |             |                |           |             |          |         |          | Min VS (V) | Max VS (V) | Packages        |
|-------------|-------------|------------|--------------|---------------|---------------|-----------|-------------|----------------|-----------|-------------|----------|---------|----------|------------|------------|-----------------|
|             |             |            |              | G = 1BW (MHz) | G = 2BW (MHz) | SR (V/us) | DG/DP (%/°) | Is per Ch (mA) | Iout (mA) | en (nV/√Hz) | Vio (mV) | Ib (uA) | Aol (dB) |            |            |                 |
| AD8052LV    | 2           | No         | Out          | 260           | 90            | 145       | N/A         | 4.2            | 55        | 16          | 1.4      | 3       | 78       | 2.5        | 5.5        | MSOP-8, SOIC-8  |
| CLC1001     | 1           | Yes        | No           | 2100          | N/A           | 410       | N/A         | 12.5           | 130       | 0.6         | 0.35     | 30      | 83       | 4          | 12         | SOT23-6, SOIC-8 |
| CLC1002     | 1           | Yes        | Out          | 963           | N/A           | 170       | N/A         | 13             | 130       | 0.6         | 0.5      | 30      | 83       | 4          | 12         | SOT23-6, SOIC-8 |
| CLC1003     | 1           | No         | In / Out     | 55            | 25            | 12        | N/A         | 2.2            | 80        | 3.5         | 0.05     | 0.3     | 115      | 2.5        | 12         | SOT23-5, SOIC-8 |
| CLC1004     | 1           | Yes        | No           | N/A           | 750           | 1400      | 0.02/0.01   | 12             | 100       | 4           | N/A      | 3.2     | 70       | 4.5        | 12         | SOT23-6         |
| CLC1005     | 1           | No         | Out          | 260           | 90            | 145       | 0.06/0.07   | 4.2            | 55        | 16          | 1.4      | 3       | 78       | 2.5        | 5.5        | SOT23-5, SOIC-8 |
| CLC1006     | 1           | No         | No           | N/A           | 500           | 1400      | 0.02/0.05   | 5.5            | 100       | 5           | N/A      | 3.2     | 61       | 4.5        | 12         | SOT23-5, SOIC-8 |
| CLC1008     | 1           | No         | Out          | 75            | 35            | 50        | n/a         | 0.5            | 15        | 12          | 1        | 1.2     | 80       | 2.5        | 5.5        | SOT23-5, SOIC-8 |
| CLC1009     | 1           | No         | Out          | 35            | 18            | 27        | n/a         | 0.2            | 8.5       | 21          | 1.5      | 0.37    | 62       | 2.5        | 5.5        | SOT23-5, SOIC-8 |
| CLC1010     | 1           | No         | Out          | 7.3           | 3.4           | 9         | n/a         | 0.07           | 4         | 29          | 1        | 0.09    | 76       | 2.5        | 5.5        | SOT23-5, SOIC-8 |
| CLC1011     | 1           | No         | Both         | 4.3           | 3             | 9         | n/a         | 0.16           | 30        | 22          | 1.5      | 0.09    | 80       | 2.5        | 5.5        | SC70-5, SOT23-5 |
| CLC1014     | 1           | Yes        | No           | N/A           | 750           | 1400      | 0.02/0.01   | 12             | 100       | 4           | N/A      | 3.2     | 70       | 4.5        | 12         | SOT23-5         |
| CLC1015     | 1           | Yes        | Out          | 260           | 90            | 145       | 0.06/0.07   | 4.2            | 55        | 16          | 1.4      | 3       | 78       | 2.5        | 5.5        | SOT23-6, SOIC-8 |
| CLC1018     | 1           | Yes        | Out          | 75            | 35            | 50        | n/a         | 0.5            | 15        | 12          | 1        | 1.2     | 80       | 2.5        | 5.5        | SOT23-6, SOIC-8 |
| CLC1019     | 1           | Yes        | Out          | 35            | 18            | 27        | n/a         | 0.2            | 8.5       | 21          | 1.5      | 0.37    | 62       | 2.5        | 5.5        | SOT23-6, SOIC-8 |
| CLC1050     | 1           | No         | No           | 0.55          | 0.42          | 0.28      | N/A         | 0.65           | 40        | 40          | 2        | 20      | 100      | 3          | 36         | SOT23-5         |
| CLC1603     | 1           | Yes        | No           | 240           | 200           | 450       | 0.01/0.03   | 1.1            | 100       | 4           | 0.7      | 2       | N/A      | 4.5        | 12         | SOT23-6         |
| CLC1605     | 1           | No         | No           | 1500          | 1200          | 2500      | 0.01/0.01   | 12             | 120       | 3.7         | N/A      | 3       | N/A      | 4.5        | 12         | SOT23-5         |
| CLC1606     | 1           | No         | No           | 1300          | 1200          | 3300      | 0.01/0.01   | 7.5            | 120       | 3           | N/A      | 3       | N/A      | 4.5        | 12         | SOT23-5, SOIC-8 |

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|-------------|-------------|------------|--------------|---------------|---------------|-----------|-------------|----------------|-----------|-------------|----------|---------|----------|------------|------------|----------------|
|             |             |            |              | G = 1BW (MHz) | G = 2BW (MHz) | SR (V/us) | DG/DP (%/°) | Is per Ch (mA) | Iout (mA) | en (nV/√Hz) | Vio (mV) | Ib (uA) | Aol (dB) |            |            |                |
| CLC2000     | 2           | No         | No           | 510           | 250           | 210       | 0.009/0.06  | 7              | 200       | 4.5         | 0.3      | 10      | TBD      | 5          | 12         | SOIC-8         |
| CLC2005     | 2           | No         | Out          | 260           | 90            | 145       | N/A         | 4.2            | 55        | 16          | 1.4      | 3       | 78       | 2.5        | 5.5        | MSOP-8, SOIC-8 |
| CLC2008     | 2           | No         | Out          | 75            | 35            | 50        | n/a         | 0.5            | 15        | 12          | 1        | 1.2     | 80       | 2.5        | 5.5        | MSOP-8, SOIC-8 |
| CLC2009     | 2           | No         | Out          | 35            | 18            | 27        | n/a         | 0.2            | 8.5       | 21          | 1.5      | 0.37    | 62       | 2.5        | 5.5        | MSOP-8, SOIC-8 |
| CLC2010     | 2           | No         | Out          | 7.3           | 3.4           | 9         | n/a         | 0.07           | 4         | 29          | 1        | 0.09    | 76       | 2.5        | 5.5        | MSOP-8, SOIC-8 |
| CLC2011     | 2           | No         | Both         | 4.3           | 3             | 9         | n/a         | 0.16           | 30        | 22          | 1.5      | 0.09    | 80       | 2.5        | 5.5        | MSOP-8, SOIC-8 |
| CLC2050     | 2           | No         | No           | 0.55          | 0.42          | 0.28      | N/A         | 0.35           | 40        | 40          | 2        | 20      | 100      | 3          | 36         | SOIC-8         |
| CLC2058     | 2           | No         | No           | 4.86          | 3.55          | 2.8       | N/A         | 2.5            | 35        | 10          | 1        | 70      | 100      | 4          | 36         | SOIC-8         |
| CLC2059     | 2           | No         | No           | 13.7          | 6.8           | 7         | N/A         | 3              | 45        | 4           | 0.5      | 150     | 110      | 4          | 36         | SOIC-8         |
| CLC2600     | 2           | No         | No           | 300           | 230           | 1300      | 0.03/0.04   | 3.3            | 50        | 6.4         | 1.4      | 1.3     | N/A      | 8          | 12         | SOIC-8         |
| CLC2601     | 2           | No         | No           | 550           | 335           | 1500      | 0.01/0.06   | 5.2            | 52        | 7           | 2.7      | 2.6     | N/A      | 8          | 12         | SOIC-8         |
| CLC3004     | 3           | Yes        | No           | N/A           | 750           | 1400      | 0.02/0.01   | 12             | 100       | 4           | N/A      | 3.2     | 70       | 4.5        | 12         | SOIC-16        |
| CLC3600     | 3           | No         | No           | 300           | 230           | 1300      | 0.03/0.04   | 4.4            | 50        | 6.4         | 1.4      | 1.3     | N/A      | 8          | 12         | SOIC-14        |
| CLC3601     | 3           | No         | No           | 550           | 335           | 1500      | 0.01/0.06   | 6.9            | 52        | 7           | 2.7      | 2.6     | N/A      | 8          | 12         | SOIC-14        |
| CLC3603     | 3           | Yes        | No           | 240           | 200           | 450       | 0.01/0.03   | 1.1            | 100       | 4           | 0.7      | 2       | N/A      | 4.5        | 12         | SOIC-16        |
| CLC3605     | 3           | Yes        | No           | 1500          | 1200          | 2500      | 0.01/0.01   | 12             | 120       | 3.7         | N/A      | 3       | N/A      | 4.5        | 12         | SOIC-16        |
| CLC3613     | 3           | Yes        | No           | 240           | 200           | 450       | 0.01/0.03   | 1.1            | 100       | 4           | 0.7      | 2       | N/A      | 4.5        | 12         | SOIC-14        |
| CLC4011     | 4           | No         | Both         | 4.3           | 3             | 9         | n/a         | 0.16           | 30        | 22          | 1.5      | 0.09    | 80       | 2.5        | 5.5        | SOIC-14        |
| CLC4050     | 4           | No         | No           | 0.55          | 0.42          | 0.28      | N/A         | 0.25           | 40        | 40          | 2        | 20      | 100      | 3          | 36         | SOIC-14        |
| CLC4600     | 4           | No         | No           | 300           | 230           | 1300      | 0.03/0.04   | 3.3            | 50        | 6.4         | 1.4      | 1.3     | N/A      | 8          | 12         | SOIC-14        |
| CLC4601     | 4           | No         | No           | 550           | 335           | 1500      | 0.01/0.06   | 5.2            | 52        | 7           | 2.7      | 2.6     | N/A      | 8          | 12         | SOIC-14        |
| LM324       | 4           | No         | No           | 0.55          | 0.42          | 0.28      | N/A         | 0.35           | 40        | 40          | 2        | 0.02    | 100      | 3          | 36         | SOIC-14        |
| LM358       | 2           | No         | No           | 0.55          | 0.42          | 0.28      | N/A         | 0.35           | 40        | 40          | 2        | 0.02    | 100      | 3          | 36         | SOIC-8         |
| LMV321      | 1           | No         | Out          | 1             | N/A           | 1         | N/A         | 0.13           | 160       | 39          | 1.7      | N/A     | 100      | 2.7        | 5.5        | TSOT-5         |
| NJM4558     | 2           | No         | No           | 4.86          | 3.55          | 2.8       | N/A         | 1.25           | 60        | 10          | 1        | 0.07    | 100      | 4          | 36         | SOIC-8         |