

# TEXAS INSTRUMENTS Operational Amplifiers

**TEXAS INSTRUMENTS**  
Authorized Distributor

RoHS Compliant This product is RoHS compliant.

## HIGH SPEED AMPLIFIERS (≤ 50MHz)

For quantities of 500 and up, call for quote.

| MOUSER STOCK NO.        | TI Part No.   | Package   | No. of Channels | Vs (Min/Max) | Iq per Channel (Max) (mA) | GBW (Typ) (MHz) | Io (Typ) (mA) | Slew Rate (Typ) (V/us) | Price Each |      |      |      |  |  |
|-------------------------|---------------|-----------|-----------------|--------------|---------------------------|-----------------|---------------|------------------------|------------|------|------|------|--|--|
|                         |               |           |                 |              |                           |                 |               |                        | 1          | 25   | 100  | 250  |  |  |
| <b>Current Feedback</b> |               |           |                 |              |                           |                 |               |                        |            |      |      |      |  |  |
| 595-THS3061DGN          | THS3061DGN    | HTSSOP-8  | 1               | 10/30        | 12                        | 2200            | 145           | 7000                   | 6.50       | 5.20 | 4.38 | 4.21 |  |  |
| 595-THS3091DDA          | THS3091DDA    | HSOP-8    | 1               | 10/30        | 11                        | -               | 250           | 7300                   | 5.80       | 4.64 | 3.90 | 3.76 |  |  |
| 595-THS3111ID           | THS3111ID     | SOIC-8    | 1               | 10/30        | 7.5                       | -               | 260           | 1300                   | 3.14       | 2.52 | 1.96 | 1.85 |  |  |
| 595-THS3121CD           | THS3121CD     | SOIC-8    | 1               | 10/30        | -                         | -               | 475           | 1700                   | 5.34       | 4.28 | 3.32 | 3.15 |  |  |
| 595-OPA691ID            | OPA691ID      | SOIC-8    | 1               | -            | 4.5                       | 2000            | 190           | 2100                   | 3.41       | 2.73 | 2.12 | 2.01 |  |  |
| 595-OPA691IDBVT         | OPA691IDBVT   | SOT-6     | 1               | -            | 4.5                       | 2000            | 190           | 2100                   | 3.42       | 2.73 | 2.12 | 2.02 |  |  |
| 595-OPA694ID            | OPA694ID      | SOIC-8    | 1               | -            | 5.8                       | -               | 80            | 1700                   | 2.98       | 2.39 | 1.85 | 1.76 |  |  |
| 595-OPA694IDBVT         | OPA694IDBVT   | SOT-5     | 1               | -            | 5.8                       | -               | 80            | 1700                   | 2.99       | 2.39 | 1.86 | 1.76 |  |  |
| 595-OPA2674I-14D        | OPA2674I-14D  | SOIC-14   | 2               | 5/12         | 19.2                      | 2080            | 500           | 2000                   | 3.38       | 2.70 | 2.09 | 1.99 |  |  |
| 595-OPA2674I-14DR       | OPA2674I-14DR | SOIC-14   | 2               | 5/12         | 19.2                      | 2080            | 500           | 2000                   | 3.00       | 2.40 | 1.86 | 1.77 |  |  |
| 595-OPA2674ID           | OPA2674ID     | SOIC-8    | 2               | 5/12         | 19.2                      | 2080            | 500           | 2000                   | 3.38       | 2.70 | 2.09 | 1.99 |  |  |
| 595-OPA2677U            | OPA2677U      | SOIC-8    | 2               | 5/12         | 19.5                      | 2000            | 500           | 1800                   | 2.91       | 2.33 | 1.81 | 1.71 |  |  |
| 595-OPA2683ID           | OPA2683ID     | SOIC-8    | 2               | 5/12         | 2.1                       | 1440            | 110           | 400                    | 4.38       | 3.50 | 2.72 | 2.59 |  |  |
| 595-THS3202D            | THS3202D      | SOIC-8    | 2               | 6.6/15       | 20                        | -               | 115           | 9000                   | 6.40       | 5.12 | 4.31 | 4.16 |  |  |
| 595-THS3202DGN          | THS3202DGN    | HTSSOP-8  | 2               | 6.6/15       | 20                        | -               | 115           | 9000                   | 6.40       | 5.12 | 4.31 | 4.16 |  |  |
| 595-THS6012CDWP         | THS6012CDWP   | HSOP-20   | 2               | 9/32         | -                         | -               | 500           | 1300                   | 7.70       | 6.15 | 5.19 | 4.99 |  |  |
| 595-THS6022IPWP         | THS6022IPWP   | HTSSOP-14 | 2               | 9/32         | 10                        | -               | 250           | 1900                   | 5.98       | 4.77 | 4.02 | 3.88 |  |  |
| 595-THS3062DDA          | THS3062DDA    | HSOP-8    | 2               | 10/30        | 12                        | 2200            | 145           | 7000                   | 9.40       | 7.52 | 6.33 | 6.10 |  |  |
| 595-THS3092D            | THS3092D      | SOIC-8    | 2               | 10/30        | 11                        | -               | 250           | 5700                   | 9.00       | 8.10 | 7.18 | 6.88 |  |  |
| 595-THS3092DDA          | THS3092DDA    | HSOP-8    | 2               | 10/30        | 11                        | -               | 250           | 5700                   | 9.28       | 8.40 | 7.44 | 7.10 |  |  |
| 595-THS3122IDDA         | THS3122IDDA   | HSOP-8    | 2               | 10/30        | 11.5                      | -               | 440           | 1550                   | 8.36       | 6.68 | 5.64 | 5.43 |  |  |
| 595-THS3125IPWP         | THS3125IPWP   | HTSSOP-14 | 2               | 10/30        | -                         | -               | 440           | 1550                   | 8.46       | 6.76 | 5.70 | 5.49 |  |  |
| 595-THS6182DW           | THS6182DW     | SOIC-20   | 2               | 10/30        | 12.5                      | -               | 600           | 450                    | 7.80       | 6.23 | 5.26 | 5.06 |  |  |
| 595-OPA2695ID           | OPA2695ID     | SOIC-8    | 2               | 12/3.6       | 26.8                      | -               | 120           | 4300                   | 5.39       | 4.32 | 3.36 | 3.18 |  |  |
| 595-OPA3691ID           | OPA3691ID     | SOIC-16   | 3               | 5/12         | 5.1                       | 2000            | 190           | 2100                   | 6.80       | 5.44 | 4.58 | 4.42 |  |  |
| 595-OPA3691IDBQT        | OPA3691IDBQT  | SSOP-16   | 3               | 5/12         | 5.1                       | 2000            | 190           | 2100                   | 6.80       | 5.44 | 4.59 | 4.42 |  |  |
| 595-OPA4684ID           | OPA4684ID     | SOIC-14   | 4               | 5/12         | 7.8                       | 1900            | 120           | 750                    | 6.94       | 5.54 | 4.67 | 4.50 |  |  |
| <b>JFET/CMOS</b>        |               |           |                 |              |                           |                 |               |                        |            |      |      |      |  |  |
| 595-OPA354AIDBVT        | OPA354AIDBVT  | SOT-5     | 1               | 2.5/5.5      | 7.5                       | 100             | 100           | 150                    | 1.87       | 1.50 | 1.12 | 1.05 |  |  |
| 595-OPA354AIDDA         | OPA354AIDDA   | HSOP-8    | 1               | 2.5/5.5      | 7.5                       | 100             | 100           | 150                    | 1.87       | 1.50 | 1.12 | 1.05 |  |  |
| 595-OPA355NA/250        | OPA355NA/250  | SOT-6     | 1               | 2.5/5.5      | 14                        | 200             | 100           | 360                    | 2.00       | 1.60 | 1.20 | 1.12 |  |  |
| 595-OPA356AIDBVT        | OPA356AIDBVT  | SOT-5     | 1               | 2.5/5.5      | 14                        | 200             | 100           | 360                    | 2.00       | 1.60 | 1.20 | 1.12 |  |  |
| 595-OPA357AIDDA         | OPA357AIDDA   | HSOP-8    | 1               | 2.5/5.5      | 7.5                       | 100             | 100           | 150                    | 1.87       | 1.50 | 1.12 | 1.05 |  |  |
| 595-OPA361AIDCKT        | OPA361AIDCKT  | SOT-6     | 1               | 2.5/3.6      | -                         | -               | 80            | -                      | 1.37       | 1.10 | .825 | .77  |  |  |
| 595-THS4631D            | THS4631D      | SOIC-8    | 1               | 10/30        | 11.5                      | 210             | 95            | 1000                   | 7.90       | 6.32 | 5.32 | 5.12 |  |  |
| 595-OPA656U             | OPA656U       | SOIC-8    | 1               | 10/12        | -                         | 230             | 70            | 290                    | 7.40       | 5.92 | 4.99 | 4.80 |  |  |
| 595-OPA656UB            | OPA656UB      | SOIC-8    | 1               | 10/12        | -                         | 230             | 70            | 290                    | 9.90       | 7.92 | 6.67 | 6.43 |  |  |
| 595-OPA657NB/250        | OPA657NB/250  | SOT-5     | 1               | 10/12        | 16.3                      | 1600            | 70            | 700                    | 9.33       | 8.40 | 7.44 | 7.14 |  |  |
| 595-OPA657U             | OPA657U       | SOIC-8    | 1               | 10/12        | 16.3                      | 1600            | 70            | 700                    | 8.30       | 6.64 | 5.60 | 5.39 |  |  |
| 595-OPA2356AID          | OPA2356AID    | SOIC-8    | 2               | 2.5/5.5      | 14                        | 200             | 100           | 360                    | 2.91       | 2.34 | 1.82 | 1.71 |  |  |
| 595-OPA2354AIDDA        | OPA2354AIDDA  | HSOP-8    | 2               | 2.7/5.5      | 7.5                       | 180             | 100           | 150                    | 2.80       | 2.25 | 1.75 | 1.65 |  |  |
| 595-OPA4354AID          | OPA4354AID    | SOIC-14   | 4               | 2.7/5.5      | 7.5                       | 100             | 100           | 150                    | 4.05       | 3.24 | 2.52 | 2.38 |  |  |
| 595-OPA4354AIPWR        | OPA4354AIPWR  | TSSOP-14  | 4               | 2.7/5.5      | 7.5                       | 100             | 100           | 150                    | 3.60       | 2.88 | 2.24 | 2.12 |  |  |
| 595-OPA4354AIPWT        | OPA4354AIPWT  | TSSOP-14  | 4               | 2.7/5.5      | 7.5                       | 100             | 100           | 150                    | 4.05       | 3.24 | 2.52 | 2.39 |  |  |
| <b>Rail to Rail</b>     |               |           |                 |              |                           |                 |               |                        |            |      |      |      |  |  |
| 595-THS4281D            | THS4281D      | SOIC-8    | 1               | 2.7/15       | 1                         | -               | 30            | 35                     | 2.25       | 1.80 | 1.40 | 1.33 |  |  |
| 595-THS4281DBVT         | THS4281DBVT   | SOT-5     | 1               | 2.7/15       | 1                         | -               | 30            | 35                     | 2.25       | 1.80 | 1.40 | 1.33 |  |  |
| 595-THS4281DGK          | THS4281DGK    | VSSOP-8   | 1               | 2.7/15       | 1                         | -               | 30            | 35                     | 2.25       | 1.80 | 1.40 | 1.33 |  |  |
| 595-OPA830IDBVT         | OPA830IDBVT   | SOT-5     | 1               | 2.8/11       | -                         | -               | 80            | -                      | 1.30       | 1.04 | .78  | .728 |  |  |
| 595-OPA832ID            | OPA832ID      | SOIC-8    | 1               | 2.8/11       | -                         | -               | 80            | -                      | .92        | .691 | .645 | .621 |  |  |
| 595-SN1050IDBVT         | SN1050IDBVT   | SOT-5     | 1               | 3/15         | 22                        | 120             | 100           | 900                    | 1.90       | 1.52 | 1.14 | 1.06 |  |  |
| 595-THS4221D            | THS4221D      | SOIC-8    | 1               | 5/15         | -                         | 120             | 100           | 975                    | 2.36       | 1.89 | 1.47 | 1.39 |  |  |
| 595-THS4221DBVT         | THS4221DBVT   | SOT-5     | 1               | 5/15         | -                         | 120             | 100           | 975                    | 2.36       | 1.89 | 1.47 | 1.39 |  |  |
| 595-SN10502DGK          | SN10502DGK    | VSSOP-8   | 2               | 3/15         | 22                        | 120             | 100           | 900                    | 2.56       | 2.04 | 1.71 | 1.65 |  |  |
| 595-OPA2830ID           | OPA2830ID     | SOIC-8    | 2               | 3/11         | 3.9                       | 100             | 75            | 500                    | 2.15       | 1.72 | 1.29 | 1.19 |  |  |
| 595-OPA2830IDGKT        | OPA2830IDGKT  | VSSOP-8   | 2               | 3/11         | 3.9                       | 100             | 75            | 500                    | 2.15       | 1.72 | 1.29 | 1.20 |  |  |
| 595-OPA2832IDGKT        | OPA2832IDGKT  | VSSOP-8   | 2               | 3/11         | 3.9                       | 100             | 75            | 320                    | 1.90       | 1.52 | 1.27 | 1.23 |  |  |
| 595-THS4222D            | THS4222D      | SOIC-8    | 2               | 5/15         | -                         | 120             | 100           | 975                    | 3.03       | 2.43 | 1.89 | 1.78 |  |  |
| <b>DSL/Power Line</b>   |               |           |                 |              |                           |                 |               |                        |            |      |      |      |  |  |
| 595-OPA2613ID           | OPA2613ID     | SOIC-8    | 2               | 5/12         | 6.5                       | 125             | 350           | 70                     | 3.63       | 2.90 | 2.25 | 2.14 |  |  |
| 595-OPA2614ID           | OPA2614ID     | SOIC-8    | 2               | 5/12         | 6.5                       | 290             | 350           | 145                    | 4.20       | 3.36 | 2.82 | 2.72 |  |  |
| 595-OPA2674I-14D        | OPA2674I-14D  | SOIC-14   | 2               | 5/12         | 19.2                      | 2080            | 500           | 2000                   | 3.38       | 2.70 | 2.09 | 1.99 |  |  |
| 595-OPA2674ID           | OPA2674ID     | SOIC-8    | 2               | 5/12         | 19.2                      | 2080            | 500           | 2000                   | 3.38       | 2.70 | 2.09 | 1.99 |  |  |
| 595-OPA2677U            | OPA2677U      | SOIC-8    | 2               | 5/12         | 19.5                      | 2000            | 500           | 1800                   | 2.91       | 2.33 | 1.81 | 1.71 |  |  |
| 595-THS3092D            | THS3092D      | SOIC-8    | 2               | 10/30        | 11                        | -               | 250           | 5700                   | 9.00       | 8.10 | 7.18 | 6.88 |  |  |
| 595-THS3092DDA          | THS3092DDA    | HSOP-8    | 2               | 10/30        | 11                        | -               | 250           | 5700                   | 9.28       | 8.40 | 7.44 | 7.10 |  |  |
| 595-THS6182DW           | THS6182DW     | SOIC-20   | 2               | 10/30        | 12.5                      | -               | 600           | 450                    | 7.80       | 6.23 | 5.26 | 5.06 |  |  |

## PRECISION AMPLIFIERS

For quantities of 500 and up, call for quote.

| MOUSER STOCK NO.  | TI Part No.   | Package | No. of Channels | Total Supply Voltage Min/Max (+5V=5, ±5v=10) | Iq per Channel (Max) (mA) | GBW (Typ) (MHz) | Slew Rate (Typ) (V/us) | VIO (25°C) (Max) (mV) | Price Each |      |      |      |  |  |
|-------------------|---------------|---------|-----------------|--|---------------------------|-----------------|------------------------|-----------------------|------------|------|------|------|--|--|
|                   |               |         |                 |  |                           |                 |                        |                       | 1          | 25   | 100  | 250  |  |  |
| <b>Low Power</b>  |               |         |                 |  |                           |                 |                        |                       |            |      |      |      |  |  |
| 595-TLV2760IDBVT  | TLV2760IDBVT  | SOT-6   | 1               | 3.6  | 0.028                     | 0.5             | 0.2                    | 3.5                   | 1.77       | 1.42 | 1.06 | .994 |  |  |
| 595-TLV2761IDBVT  | TLV2761IDBVT  | SOT-5   | 1               | 3.6  | 0.028                     | 0.5             | 0.2                    | 3.5                   | 1.67       | 1.34 | 1.00 | .938 |  |  |
| 595-OPA379AID     | OPA379AID     | SOIC-8  | 1               | 5.5  | 0.0055                    | 0.09            | 0.03                   | 1.5                   | 2.11       | 1.70 | 1.26 | 1.19 |  |  |
| 595-OPA379AIDBVT  | OPA379AIDBVT  | SOT-5   | 1               | 5.5  | 0.0055                    | 0.09            | 0.03                   | 1.5                   | 2.12       | 1.70 | 1.27 | 1.19 |  |  |
| 595-OPA379AIDCKT  | OPA379AIDCKT  | SOT-5   | 1               | 5.5  | 0.0055                    | 0.09            | 0.03                   | 1.5                   | 2.12       | 1.70 | 1.27 | 1.19 |  |  |
| 595-TLV2450AIPPE4 | TLV2450AIPPE4 | PDIP-8  | 1               | 6  | 0.035                     | 0.22            | 0.12                   | 1                     | 2.02       | 1.62 | 1.21 | 1.13 |  |  |
| 595-TLV2451CDBVR  | TLV2451CDBVR  | SOT-5   | 1               | 6  | 0.035                     | 0.22            | 0.11                   | 1.5                   | 1.42       | 1.14 | .855 | .798 |  |  |
| 595-TLV2451IDBVR  | TLV2451IDBVR  | SOT-5   | 1               | 6  | 0.035                     | 0.22            | 0.11                   | 1.5                   | 1.42       | 1.14 | .855 | .798 |  |  |
| 595-TLV660CD      | TLV660CD      | SOIC-8  | 1               | 10   | 0.11                      | -               | -                      | -                     | 1.38       | 1.15 | .92  | .69  |  |  |
| 595-TLV660CDGKR   | TLV660CDGKR   | VSSOP-8 | 1               | 10   | 0.11                      | -               | -                      | -                     | 1.26       | 1.05 | .84  | .63  |  |  |
| 595-TLV660CDGKT   | TLV660CDGKT   | VSSOP-8 | 1               | 10   | 0.11                      | -               | -                      | -                     | 1.35       | 1.20 | .90  | .84  |  |  |
| 595-TLV660CDR     | TLV660CDR     | SOIC-8  | 1               | 10   | 0.11                      | -               | -                      | -                     | 1.20       | 1.00 | .80  | .60  |  |  |
| 595-TLV2211CDBVR  | TLV2211CDBVR  | SOT-5   | 1               | 10   | 0.025                     | 0.056           | 0.025                  | 3                     | 1.20       | 1.00 | .80  | .60  |  |  |
| 595-TLV2211IDBVR  | TLV2211IDBVR  | SOT-5   | 1               | 10   | 0.025                     | 0.056           | 0.025                  | 3                     | 1.26       | 1.05 | .84  | .63  |  |  |
| 595-TLV2221CDBVR  | TLV2221CDBVR  | SOT-5   | 1               | 10   | 0.15                      | 0.48            | 0.18                   | 3                     | 1.20       | 1.00 | .80  | .60  |  |  |
| 595-TLV2221IDBVR  | TLV2221IDBVR  | SOT-5   | 1               | 10   | 0.15                      | 0.48            | 0.18                   | 3                     | 1.14       | 1.05 | .84  | .63  |  |  |