# MICROCHIP – MCP601/2/3/4 OPERATIONAL AMPLIFIER CROSS REFERENCE (AUGUST 2000)

| Part # | Co | MCP Part # | Vos +/-uV | Drift typ +/-uV/C | Vos over temp +/-uV | Ib over temp +/-pA | PSR uV/V | CM Range min/maxV | CMRR dB | Aol 25k dB | Aol 5k dB | GBWP (typ) MHz | SR (typ) V/us | DVout+ 25k mV | DVout+ 5k mV | DVout- 25k mV | DVout- 5k mV | Vn,typ 1kHz nV/rt Hz | In,typ 1kHz fA/rtHz | Isc typ mA | Vcc+ Min V | Vcc+ Max V | Iq uA | Package |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1-CHANNEL DEVICES** | | | | | | | | | | | | | | | | | | | | | | | | |
| MCP601 | MCP | — | 2000 | 2 | 3000 | 60 | 178 | -0.3/3.8 | 75 | 100 | 95 | 2.8 | 2.3 | 50 | 100 | 50 | 100 | 29 | 0.6 | 20 | 2.7 | 5.5 | 325 | PDIP-8, SO-8 |
| MCP603 | MCP | — | 2000 | 2 | 3000 | 60 | 178 | -0.3/3.8 | 75 | 100 | 95 | 2.8 | 2.3 | 50 | 100 | 50 | 100 | 29 | 0.6 | 20 | 2.7 | 5.5 | 325 | PDIP-8, SO-8 |
| AD8531 | AD | 601/3 | 25000 | — | — | 60 | 5623 | 0/5 | 38 | — | — | 3 | 5 | — | 100 | — | 100 | 45 | 50 | — | — | — | 1250 | SO-8, SOT-23 |
| AD8591 | ADI | 601/3 | 25000 | 20 | 30000 | 60 | 5623 | 0-5 | 38 | — | 84 | 3 | 5 | — | 500 | — | 500 | 45 | 50 | — | 2.5 | 6 | 1250 | SOT-23-5 |
| OPA337 | BB | 601/3 | 3000 | 2 | 3500 | — | 125 | -0.2/3.8 | 74 | 100 | 100 | 3 | 1.2 | 125 | 500 | 125 | 500 | 26 | 0.6 | 9 | 2.5 | 5.5 | 1000 | PDIP, SO-8, SOT-23-8 |
| OPA340 | BB | 601/3 | 500 | 2.5 | 650 | 60 | 120 | -0.3/4.7 | 80 | 103 | 97 | 5.5 | 6 | 20 | 100 | 20 | 100 | 25 | 3 | 50 | 2.5 | 5.5 | 950 | PCIP, SO-8, SOT23-5 |
| OPA343A | BB | 601/3 | 8000 | — | 8180 | 60 | 200 | -0.3/4.7 | 74 | 100 | 92 | 5.5 | 6 | 50 | 200 | 50 | 200 | 25 | 3 | 50 | 2.5 | 5.5 | 1250 | SOT-23, SO-8 |
| OPA353 | BB | 601/3 | 8000 | 5 | 10000 | 600 | 150 | -0.1/5.1 | 60 | 122 | — | 44 | 22 | 50 | — | 50 | — | 9 | 4 | 80 | 2.7 | 5.5 | 8000 | SOT23-5, SO-8 |
| ILC7611A-M | HA | 601/3 | 2000 | 10 | 3000 | 400 | 100 | 0.8/4.2 | 76 | 86 | — | 0.48 | 0.16 | 100 | — | 100 | — | 100 | 10 | — | 2 | 10 | 250 | PDIP-8, SO-8, TO-99 |
| ILC7611B-M | HA | 601/3 | 5000 | 15 | 7000 | 400 | 100 | 0.8/4.2 | 70 | 80 | — | 0.48 | 0.16 | 100 | — | 100 | — | 100 | 10 | — | 2 | 10 | 250 | PDIP-8, SO-8, TO-99 |
| ILC7611C-M | HA | 601/3 | 15000 | 25 | 20000 | 400 | 100 | 0.8/4.2 | 70 | 80 | — | 0.48 | 0.16 | 100 | — | 100 | — | 100 | 10 | — | 2 | 10 | 250 | PDIP-8, SO-8, TO-99 |
| ILC7612A-M | HA | 601/3 | 2000 | 10 | 3000 | 400 | 100 | -0.1/5.3 | 76 | 86 | — | 0.48 | 0.16 | 100 | — | 100 | — | 100 | 10 | — | 2 | 10 | 250 | PDIP-8, SO-8, TO-99 |
| ILC7612B-M | HA | 601/3 | 5000 | 15 | 7000 | 400 | 100 | -0.1/5.3 | 70 | 80 | — | 0.48 | 0.16 | 100 | — | 100 | — | 100 | 10 | — | 2 | 10 | 250 | PDIP-8, SO-8, TO-99 |
| ILC7612C-M | HA | 601/3 | 15000 | 25 | 20000 | 400 | 100 | -0.1/5.3 | 70 | 80 | — | 0.48 | 0.16 | 100 | — | 100 | — | 100 | 10 | — | 2 | 10 | 250 | PDIP-8, SO-8, TO-99 |
| ILC7611A-H | HA | 601/3 | 2000 | 10 | 3000 | 400 | 316 | 1.3/3.7 | 66 | — | 80 | 1.4 | 1.6 | — | 500 | — | 500 | 100 | 10 | — | 2 | 10 | 2500 | PDIP-8, SO-8, TO-99 |
| ILC7611B-H | HA | 601/3 | 5000 | 15 | 7000 | 400 | 316 | 1.3/3.7 | 60 | — | 76 | 1.4 | 1.6 | — | 500 | — | 500 | 100 | 10 | — | 2 | 10 | 2500 | PDIP-8, SO-8, TO-99 |
| ILC7611C-H | HA | 601/3 | 15000 | 25 | 20000 | 400 | 316 | 1.3/3.7 | 60 | — | 76 | 1.4 | 1.6 | — | 500 | — | 500 | 100 | 10 | — | 2 | 10 | 2500 | PDIP-8, SO-8, TO-99 |
| ILC7612A-H | HA | 601/3 | 2000 | 10 | 3000 | 400 | 316 | 0.5/5.3 | 66 | — | 80 | 1.4 | 1.6 | — | 500 | — | 500 | 100 | 10 | — | 2 | 10 | 2500 | PDIP-8, SO-8, TO-99 |
| ILC7612B-H | HA | 601/3 | 5000 | 15 | 7000 | 400 | 316 | 0.5/5.3 | 60 | — | 76 | 1.4 | 1.6 | — | 500 | — | 500 | 100 | 10 | — | 2 | 10 | 2500 | PDIP-8, SO-8, TO-99 |
| ILC7612C-H | HA | 601/3 | 15000 | 25 | 20000 | 400 | 316 | 0.5/5.3 | 60 | — | 76 | 1.4 | 1.6 | — | 500 | — | 500 | 100 | 10 | — | 2 | 10 | 2500 | PDIP-8, SO-8, TO-99 |
| LMC6081 | NAT | 601/3 | 350 | 1 | 900 | 4 | 177 | -0.1-2.7 | 75 | 100 | — | 1.3 | 1.5 | — | — | — | — | 22 | 0.2 | 13 | 4.5 | 15 | 750 | PDIP-8, SOIC-8 |
| LMC6081A | NAT | 601/3 | 800 | 1 | 1300 | 4 | 177 | -0.1-2.7 | 75 | 100 | — | 1.3 | 1.5 | — | — | — | — | 22 | 0.2 | 13 | 4.5 | 15 | 750 | PDIP-8, SOIC-8 |
| LMC7101A | NAT | 601/3 | 3000 | 1 | 5000 | — | 562 | -0.2/5.2 | 65 | 95 | 91 | 1 | 1 | — | 300 | — | 180 | 37 | 1.5 | 11 | 2.7 | 15.5 | 850 | PDIP, SOT-23 |
| LMC7101B | NAT | 601/3 | 7000 | 1.5 | 9000 | — | 1000 | -0.2/5.2 | 65 | 95 | 91 | 1 | 1 | — | 300 | — | 180 | 37 | 1.5 | 11 | 15.5 | 2.7 | 850 | PDIP, SOT-23 |
| LMC6681A | NAT | 601/3 | 1000 | 1.5(typ) | 2500 | — | 316 | 0/5 | 70 | — | 88 | 1.2 | 1.2 | — | 150 | — | 200 | 32 | 0.5 | — | 1.8 | 10 | 1240 | PDIP, SO-8 |
| LMC6681B | NAT | 601/3 | 3000 | 1.5 | 4500 | — | 562 | 0/5 | 65 | — | 88 | 1.2 | 1.2 | — | 150 | — | 200 | 32 | 0.5 | — | 1.8 | 10 | 1240 | PDIP, SO-8 |
| TLC2201 | TI | 601/3 | 500 | 0.5 | 650 | — | 31.6 | 0/2.7 | 90 | 104 | 88 | 1.8 | 2.5 | — | 300 | — | 50 | 8 | 0.6 | — | 4.6 | 16 | 1500 | PDIP, SO-8 |
| TLC2201A | TI | 601/3 | 200 | 0.5 | 350 | — | 31.6 | 0/2.7 | 90 | 104 | 88 | 1.8 | 2.5 | — | 300 | — | 50 | 8 | 0.6 | — | 4.6 | 16 | 1500 | PDIP, SO-8 |
| TLV2270 | TI | 601/3 | 2500 | 2 | 2700 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-8, SO-8, MSOP-8 |
| TLV2270A | TI | 601/3 | 1600 | 2 | 1900 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-8, SO-8, MSOP-8 |
| TLV2271 | TI | 601/3 | 2500 | 2 | 2700 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | SO-8, SOT23-5 |
| TLV2271A | TI | 601/3 | 1600 | 2 | 1900 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | SO-8, SOT23-5 |
| TLV2460 | TI | 601/3 | 2000 | 2 | 2200 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-8, SO-8, SOT23-6 |
| TLV2460A | TI | 601/3 | 1500 | 2 | 1700 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-8, SO-8, SOT23-6 |
| TLV2461 | TI | 601/3 | 2000 | 2 | 2200 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-8, SO-8, SOT23-5 |
| TLV2461A | TI | 601/3 | 1500 | 2 | 1700 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-8, SO-8, SOT23-5 |
| **2-CHANNEL DEVICES** | | | | | | | | | | | | | | | | | | | | | | | | |
| MCP602 | MCP | — | 2000 | 2 | 3000 | 60 | 178 | -0.3/3.8 | 75 | 100 | 95 | 2.8 | 2.3 | 50 | 100 | 50 | 100 | 29 | 0.6 | 20 | 2.7 | 5.5 | 325 | PDIP-8, SO-8, TSSOP |
| AD8532 | AD | 602 | 25000 | — | — | 60 | 5623 | 0/5 | 38 | — | — | 3 | 5 | — | 100 | — | 100 | 45 | 50 | — | — | — | 1250 | SO-8, PDIP, TSSOP |
| OP250 | AD | 602 | 7500 | — | 8100 | 60 | 1000 | 0/5 | 45 | — | 120 | 1 | 2.2 | 100 | 100 | 100 | 100 | 45 | 50 | 100 | 3 | 5 | 1250 | SO-8, TSSOP |
| AD8592 | ADI | 602 | 25000 | 20 | 30000 | 60 | 5623 | 0-5 | 38 | — | 84 | 3 | 5 | — | 500 | — | 500 | 45 | 50 | — | 2.5 | 6 | 1250 | SOIC-10 |
| OPA2337 | BB | 602 | 3000 | 2 | 3500 | — | 125 | -0.2/3.8 | 74 | 100 | 100 | 3 | 1.2 | 125 | 500 | 125 | 500 | 26 | 0.6 | 9 | 2.5 | 5.5 | 1000 | PDIP, SO-8, SOT-23-8 |
| OPA2343A | BB | 602 | 8000 | — | 8180 | 60 | 200 | -0.3/4.7 | 74 | 100 | 92 | 5.5 | 6 | 50 | 200 | 50 | 200 | 25 | 3 | 50 | 2.5 | 5.5 | 1250 | SO-8, MSOP-8 |
| OPA2353 | BB | 602 | 8000 | 5 | 10000 | 600 | 150 | -0.1/5.1 | 60 | 122 | — | 44 | 22 | 50 | — | 50 | — | 9 | 4 | 80 | 2.7 | 5.5 | 8000 | SO-8, MSOP-8 |
| LMC6022 | NAT | 602 | 9000 | 2.5 | 11000 | 200 | 200 | 0/3 | 63 | 99 | 94 | 0.35 | 0.11 | 600 | 800 | 60 | 250 | 42 | 0.2 | 21 | 5 | 15 | 140 | PDIP-8, SO-8 |
| LMC6032 | NAT | 602 | 9000 | 2.5 | 11000 | 200 | 200 | 0/3 | 63 | — | 106 | 1.4 | 1.1 | — | 800 | — | 250 | 22 | 0.2 | 21 | 5 | 15 | 1600 | PDIP-8, SO-8 |
| LMC6035 | NAT | 602 | 5000 | 2.5 | 6000 | 90 | 200 | 0.3/4.2 | 63 | — | 100 | 1.4 | 1.5 | — | 300 | — | 200 | 27 | 0.2 | 8 | 5 | 15 | 800 | SO-8, MSOP-8, BUMP-8 |
| LMC6082 | NAT | 602 | 350 | 1 | 900 | 4 | 177 | -0.1-2.7 | 75 | 100 | — | 1.3 | 1.5 | — | — | — | — | 22 | 0.2 | 13 | 4.5 | 15 | 750 | PDIP-8, SOIC-8 |
| LMC6082A | NAT | 602 | 800 | 1 | 1300 | 4 | 177 | -0.1-2.7 | 75 | 100 | — | 1.3 | 1.5 | — | — | — | — | 22 | 0.2 | 13 | 4.5 | 15 | 750 | PDIP-8, SOIC-8 |
| LMC6482 | NAT | 602 | 3000 | 1 | 3700 | 4 | 562 | 0/5 | 65 | — | 91 | 1.5 | 1.3 | — | 200 | — | 200 | 37 | — | 11 | 3 | 15.5 | 700 | PDIP, SO-8, CDIP, SSOP |
| LMC6482A | NAT | 602 | 750 | 1 | 1350 | 4 | 316 | 0/5 | 70 | — | 91 | 1.5 | 1.3 | — | 200 | — | 200 | 37 | — | 11 | 3 | 15.5 | 700 | PDIP, SO-8, CDIP, SSOP |
| LMC6492A | NAT | 602 | 3000 | 1 | 3800 | 200 | 562 | 0/5 | 65 | — | 92(typ) | 1.5 | 1.3 | — | 200 | — | 180 | 37 | 60 | 11 | 2.5 | 15.5 | 875 | PDIP, SO-8 |
| LMC6492B | NAT | 602 | 6000 | 1 | 6800 | 200 | 708 | 0/5 | 63 | — | 92(typ) | 1.5 | 1.3 | — | 200 | — | 180 | 37 | 60 | 11 | 2.5 | 15.5 | 875 | PDIP, SO-8 |
| LMC662 | NAT | 602 | 3000 | 1.3 | 3300 | 4 | 316 | 0/3 | 70 | — | 105 | 1.4 | 1.1 | — | 180 | — | 150 | 22 | 0.2 | 22 | 5 | 15 | 650 | PDIP-8, SO-8 |
| LMC272 | NAT | 602 | 7000 | 3.3 | 9000 | 64 | 562 | -0.2/3.5 | 65 | — | 80 | 2 | 2.5 | — | 150 | — | 20 | 25 | 1.5 | 16 | 2.7 | 10 | 3200 | PDIP-8, SO-8, MSOP |
| LMC6582A | NAT | 602 | 1000 | 1.5(typ) | 1350 | 20 | 316 | 0/5 | 70 | — | 60 | 1.2 | 1.2 | — | 150 | — | 200 | 30 | 500 | 6 | 1.8 | 10 | 1240 | PDIP, SO-8 |
| LMC6582B | NAT | 602 | 3000 | 1.5 | 3700 | 20 | 562 | 0/5 | 65 | — | 60 | 1.2 | 1.2 | — | 150 | — | 200 | 30 | 500 | 6 | 1.8 | 10 | 1240 | PDIP, SO-8 |
| LMC6682A | NAT | 602 | 1000 | 1.5(typ) | 2500 | — | 316 | 0/5 | 70 | — | 88 | 1.2 | 1.2 | — | 150 | — | 200 | 32 | 0.5 | — | 1.8 | 10 | 1240 | PDIP-14, SO-14 |
| LMC6682B | NAT | 602 | 3000 | 1.5 | 4500 | — | 562 | 0/5 | 65 | — | 88 | 1.2 | 1.2 | — | 150 | — | 200 | 32 | 0.5 | — | 1.8 | 10 | 1240 | PDIP-14, SO-14 |

* Unless otherwise specified, $V_{DD}$ = 5V, $V_{SS}$ = GND, $T_A$ = 25°C, $V_{CM}$ = $V_{DD}$/2

# MICROCHIP – MCP601/2/3/4 OPERATIONAL AMPLIFIER CROSS REFERENCE (AUGUST 2000)(CONTINUED)

| Part # | Co | MCP Part # | Vos +/-uV | Drift typ +/-uV/C | Vos over temp +/-uV | Ib over temp +/-pA | PSR uV/V | CM Range min/maxV | CMRR dB | Aol 25k dB | Aol 5k dB | GBWP (typ) MHz | SR (typ) V/us | DVout+ 25k mV | DVout+ 5k mV | DVout- 25k mV | DVout- 5k mV | Vn,typ 1kHz nV/rt Hz | In,typ 1kHz fA/rtHz | Isc typ mA | Vcc+ Min V | Vcc+ Max V | Iq uA | Package |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2-CHANNEL DEVICES (CONTINUED)** | | | | | | | | | | | | | | | | | | | | | | | | |
| TLC2262 | TI | 602 | 2500 | 2 | 3000 | 500 | 100 | 0/4 | 70 | 98 | — | 0.71 | 0.55 | 150 | — | 150 | 300 | 12 | 0.6 | — | 4.4 | 16 | 250 | SOIC, PDIP, TSSOP |
| TLC2262A | TI | 602 | 950 | 2 | 1500 | 500 | 100 | 0/4 | 70 | 98 | — | 0.71 | 0.55 | 150 | — | 150 | 300 | 12 | 0.6 | — | 4.4 | 16 | 250 | SOIC, PDIP, TSSOP |
| TLC2262C | TI | 602 | 2500 | 2 | 3000 | 100 | 100 | 0/4 | 70 | 98 | — | 0.71 | 0.55 | 150 | — | 150 | 300 | 12 | 0.6 | — | 4.4 | 16 | 250 | SOIC, PDIP, TSSOP |
| TLC27 | TI | 602 | 10000 | 1.7 | 13000 | 2000 | 316 | -0.2/4 | 65 | 88 | — | 0.525 | 0.43 | 1800 | — | 50 | — | 32 | — | — | 4 | 16 | 280 | PDIP-8, SO-8 |
| TLC27A | TI | 602 | 5000 | 1.7 | 9000 | 2000 | 316 | -0.2/4 | 65 | 88 | — | 0.525 | 0.43 | 1800 | — | 50 | — | 32 | — | — | 4 | 16 | 280 | PDIP-8, SO-8 |
| TLC27B | TI | 602 | 2000 | 1.7 | 3500 | 2000 | 316 | -0.2/4 | 65 | 88 | — | 0.525 | 0.43 | 1800 | — | 50 | — | 32 | — | — | 4 | 16 | 280 | PDIP-8, SO-8 |
| TLV2721 | TI | 602 | — | 1 | 3000 | 150 | 100 | 0/4 | 70 | — | 70 | 0.51 | 0.25 | — | 250 | — | 120 | 19 | 0.6 | — | 2.7 | 10 | 150 | SOT23-5 |
| TLC2202 | TI | 602 | 1000 | 1 | 150 | — | 100 | 0/2.7 | 75 | 104 | 88 | 1.9 | — | — | 300 | — | 50 | 8 | 0.6 | — | 4.6 | 16 | 1300 | PDIP, SO-8 |
| TLC2202A | TI | 602 | 500 | — | 700 | — | 100 | 0/2.7 | 75 | 104 | 88 | 1.9 | — | — | 300 | — | 50 | 8 | 0.6 | — | 4.6 | 16 | 1300 | PDIP, SO-8 |
| TLC2272 | TI | 602 | 2500 | 2 | 3000 | 150 | 100 | 0/4 | 70 | 84 | — | 2.18 | 3.6 | — | 150 | — | 150 | 9 | 0.6 | — | 4.4 | 16 | 1500 | PDIP-8, SO-8 |
| TLC2272A | TI | 602 | 950 | 2 | 1500 | 150 | 100 | 0/4 | 70 | 84 | — | 2.18 | 3.6 | — | 150 | — | 150 | 9 | 0.6 | — | 4.4 | 16 | 1500 | PDIP-14, SO-14, TSSOP-14 |
| TLV2272 | TI | 602 | 2500 | 2 | 2700 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-8, SO-8, MSOP-8 |
| TLV2272A | TI | 602 | 1600 | 2 | 1900 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-8, SO-8, MSOP-8 |
| TLV2273 | TI | 602 | 2500 | 2 | 2700 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-14, SO-14, MSOP-10 |
| TLV2273A | TI | 602 | 1600 | 2 | 1900 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-14, SO-14, MSOP-10 |
| TLV2462 | TI | 602 | 2000 | 2 | 2200 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-8, SO-8, MSOP-8 |
| TLV2462A | TI | 602 | 1500 | 2 | 1700 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-8, SO-8, MSOP-8 |
| TLV2463 | TI | 602 | 2000 | 2 | 2200 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-14, SO-14, MSOP-10 |
| TLV2463A | TI | 602 | 1500 | 2 | 1700 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-14, SO-14, MSOP-10 |
| **4-CHANNEL DEVICES** | | | | | | | | | | | | | | | | | | | | | | | | |
| MCP604 | MCP | — | 2000 | 2 | 3000 | 60 | 178 | -0.3/3.8 | 75 | 100 | 95 | 2.8 | 2.3 | 50 | 100 | 50 | 100 | 29 | 0.6 | 20 | 2.7 | 5.5 | 325 | PDIP-14, SO-14 |
| AD8534 | AD | 604 | 25000 | — | — | 60 | 5623 | 0/5 | 38 | — | — | 3 | 5 | — | 100 | — | 100 | 45 | 50 | — | — | — | 1250 | PDIP-14, SO-14 |
| OP450 | AD | 604 | 7500 | — | 8100 | 60 | 1000 | 0/5 | 45 | — | 120 | 1 | 2.2 | 100 | 100 | 100 | 100 | 45 | 50 | 100 | 3 | 5 | 1250 | SO-14 |
| AD8594 | ADI | 604 | 25000 | 20 | 30000 | 60 | 5623 | 0-5 | 38 | — | 84 | 3 | 5 | — | 500 | — | 500 | 45 | 50 | — | 2.5 | 6 | 1250 | SOIC-16, TSSOP-16 |
| OPA4343A | BB | 604 | 8000 | — | 8180 | 60 | 200 | -0.3/4.7 | 74 | 100 | 92 | 5.5 | 6 | 50 | 200 | 50 | 200 | 25 | 3 | 50 | 2.5 | 5.5 | 1250 | SSOP-16 |
| OPA4353 | BB | 604 | 8000 | 5 | 10000 | 600 | 150 | -0.1/5.1 | 60 | 122 | — | 44 | 22 | 50 | — | 50 | — | 9 | 4 | 80 | 2.7 | 5.5 | 8000 | SSOP-16, SO-14 |
| LMC6036 | NAT | 604 | 5000 | 2.5 | 6000 | 90 | 200 | 0.3/4.2 | 63 | — | 100 | 1.4 | 1.5 | — | 300 | — | 200 | 27 | 0.2 | 8 | 2.7 | 15 | 675 | SO-14, TSSOP |
| LMC6084 | NAT | 604 | 350 | 1 | 900 | 4 | 177 | -0.1-2.7 | 75 | 100 | — | 1.3 | 1.5 | — | — | — | — | 22 | 0.2 | 13 | 4.5 | 15 | 750 | PDIP-14, SOIC-14 |
| LMC6084A | NAT | 604 | 800 | 1 | 1300 | 4 | 177 | -0.1-2.7 | 75 | 100 | — | 1.3 | 1.5 | — | — | — | — | 22 | 0.2 | 13 | 4.5 | 15 | 750 | PDIP-14, SOIC-14 |
| LMC6494A | NAT | 604 | 3000 | 1 | 3800 | 200 | 562 | 0/5 | 65 | — | 92(typ) | 1.5 | 1.3 | — | 200 | — | 180 | 37 | 60 | 11 | 2.5 | 15.5 | 875 | PDIP-14, SO-14 |
| LMC6494B | NAT | 604 | 6000 | 1 | 6800 | 200 | 708 | 0/5 | 63 | — | 92(typ) | 1.5 | 1.3 | — | 200 | — | 180 | 37 | 60 | 11 | 2.5 | 15.5 | 875 | PDIP-14, SO-14 |
| LMC660 | NAT | 604 | 3000 | 1.3 | 3300 | 4 | 316 | 0/3 | 70 | — | 105 | 1.4 | 1.1 | — | 180 | — | 150 | 22 | 0.2 | 22 | 5 | 15 | 550 | PDIP-14, SO-14 |
| LMC6584A | NAT | 604 | 1000 | 1.5(typ) | 1350 | 20 | 316 | 0/5 | 70 | — | 60 | 1.2 | 1.2 | — | 150 | — | 200 | 30 | 500 | 6 | 1.8 | 10 | 1240 | PDIP-14, SO-14 |
| LMC6584B | NAT | 604 | 3000 | 1.5 | 3700 | 20 | 562 | 0/5 | 65 | — | 60 | 1.2 | 1.2 | — | 150 | — | 200 | 30 | 500 | 6 | 1.8 | 10 | 1240 | PDIP-14, SO-14 |
| LMC6684A | NAT | 604 | 1000 | 1.5(typ) | 2500 | — | 316 | 0/5 | 70 | — | 88 | 1.2 | 1.2 | — | 150 | — | 200 | 32 | 0.5 | — | 1.8 | 10 | 1240 | PDIP-16, SO-16 |
| LMC6684B | NAT | 604 | 3000 | 1.5 | 4500 | — | 562 | 0/5 | 65 | — | 88 | 1.2 | 1.2 | — | 150 | — | 200 | 32 | 0.5 | — | 1.8 | 10 | 1240 | PDIP-16, SO-16 |
| TLC2264 | TI | 604 | 2500 | 2 | 3000 | 500 | 100 | 0/4 | 70 | 98 | — | 0.71 | 0.55 | 150 | — | 150 | 300 | 12 | 0.6 | — | 4.4 | 16 | 250 | SOIC-14, PDIP-14, TSSOP-14 |
| TLC2264A | TI | 604 | 950 | 2 | 1500 | 500 | 100 | 0/4 | 70 | 98 | — | 0.71 | 0.55 | 150 | — | 150 | 300 | 12 | 0.6 | — | 4.4 | 16 | 250 | SOIC-14, PDIP-14, TSSOP-14 |
| TLC2264C | TI | 604 | 2500 | 2 | 3000 | 100 | 100 | 0/4 | 70 | 98 | — | 0.71 | 0.55 | 150 | — | 150 | 300 | 12 | 0.6 | — | 4.4 | 16 | 250 | SOIC-14, PDIP-14, TSSOP-14 |
| TLC2272A | TI | 604 | 950 | 2 | 1500 | 150 | 100 | 0/4 | 70 | 84 | — | 2.18 | 3.6 | — | 150 | — | 150 | 9 | 0.6 | — | 4.4 | 16 | 1500 | PDIP-14, SO-14, TSSOP-14 |
| TLC2274 | TI | 604 | 2500 | 2 | 3000 | 150 | 100 | 0/4 | 70 | 84 | — | 2.18 | 3.6 | — | 150 | — | 150 | 9 | 0.6 | — | 4.4 | 16 | 1500 | PDIP-8, SO-8 |
| TLV2274 | TI | 604 | 2500 | 2 | 2700 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-14, SO-14, TSSOP-14 |
| TLV2274A | TI | 604 | 1600 | 2 | 1900 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-14, SO-14, TSSOP-14 |
| TLV2275 | TI | 604 | 2500 | 2 | 2700 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-16, SO-16, TSSOP-16 |
| TLV2275A | TI | 604 | 1600 | 2 | 1900 | 100 | 316 | 0/3.7 | 60 | — | 86 | 5.1 | 10.5 | — | 200 | — | 200 | 147 | 0.6 | — | 2.5 | 5.5 | 2000 | PDIP-16, SO-16, TSSOP-16 |
| TLV2464 | TI | 604 | 2000 | 2 | 2200 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-14, SO-14, MSOP-14 |
| TLV2464A | TI | 604 | 1500 | 2 | 1700 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-14, SO-14, MSOP-14 |
| TLV2465 | TI | 604 | 2000 | 2 | 2200 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-16, SO-16, TSSOP-16 |
| TLV2465A | TI | 604 | 1500 | 2 | 1700 | 60 | 100 | -0.2/5.2 | 71 | 92 | — | 4.4 | 1.8 | — | 100 | — | 100 | 11 | 0.13 | 100 | 2.7 | 6 | 1300 | PDIP-16, SO-16, TSSOP-16 |

* Unless otherwise specified, $V_{DD}$ = 5V, $V_{SS}$ = GND, $T_A$ = 25°C, $V_{CM}$ = $V_{DD}$/2

# MICROCHIP – MCP606/7/8/9 OPERATIONAL AMPLIFIER CROSS REFERENCE (AUGUST 2000)

| Part # | Co | MCP Part # | Vos +/-uV | Ib over temp +/-pA | PSRR Db | CM Range min/maxV | CMRR dB | Aol 25k dB | Aol 5k dB | GBWP (typ) MHz | SR (typ) V/us | DVout+ 25k mV | DVout+ 5k mV | DVout- 25k mV | DVout- 5k mV | Vn,typ 1kHz nV/rt Hz | Isc typ mA | Vcc+ Min V | Vcc+ Max V | Iq uA | Package |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1-CHANNEL DEVICES** | | | | | | | | | | | | | | | | | | | | | |
| MCP606 | MCHP | — | 250 | 80 | 80 | -0.3-3.8 | 75 | 105 | 100 | 0.155 | 0.08 | 50 | 100 | 50 | 100 | 38 | 17 | 2.5 | 5.5 | 25 | PDIP-8, SO-8, TSSOP-8 |
| MCP608 | MCHP | — | 250 | 80 | 80 | -0.3-3.8 | 75 | 105 | 100 | 0.155 | 0.08 | 50 | 100 | 50 | 100 | 38 | 17 | 2.5 | 5.5 | 25 | PDIP-8, SO-8, TSSOP-8 |
| AD8541 | ADI | 606/8 | 6000 | 100 | 65 | 0-5 | 40 | 86 | — | 1 | 0.92 | — | 100 | — | 100 | 42 | — | 2.5 | 6 | 65 | SOIC-8, SOT-23-5 |
| OP196G | ADI | 606/8 | 300 | 50000 | 85 | 0-5 | 65 | 104 | — | 0.35 | 0.3 | 150 | 700 | 70 | 550 | 26 | 4 | 3 | 12 | 60 | 8-PDIP, 8-SO |
| LT1636 | LTC | 606/8 | 225 | 8000 | 90 | 0-4 | 84 | — | 112 | 0.2 | 0.07 | 50 | 500 | 10 | 500 | 52 | 25, 50 | 3 | 30 | 55 | 8-PDIP, 8-SO, 8-MSOP |
| LT1782 | LTC | 606/8 | 800 | 15000 | 90 | 0-18 | 68 | 106 | — | 0.2 | 0.07 | 500 | — | 500 | — | 50 | 30 | 3 | 12.5 | 55 | SOT23-5, SOT23-6 |
| LTC1636MS8 | LTC | 606/8 | 225 | 8000 | 90 | 0-4 | 84 | — | 106 | 0.11 | 0.07 | 500 | — | 500 | — | 52 | 15 | 2.7 | 44 | 55 | MSSOP-8 |
| LTC1636N8 | LTC | 606/8 | 225 | 8000 | 90 | 0-4 | 84 | — | 106 | 0.11 | 0.07 | 500 | — | 500 | — | 52 | 15 | 2.7 | 44 | 55 | PDIP-8 |
| LTC1636S8 | LTC | 606/8 | 225 | 8000 | 90 | 0-4 | 84 | — | 106 | 0.11 | 0.07 | 500 | — | 500 | — | 52 | 15 | 2.7 | 44 | 55 | SO-8 |
| LMC7111B | NAT | 606/8 | 7000 | 20 | 60 | 0/5 | 60 | 103 | — | 0.05 | 0.027 | — | 100 | — | 100 | 110 | 7 | 5 | 15 | 50 | PDIP-8, SO-8, SOT23-5 |
| LMC7111A | NAT | 606/8 | 3000 | 20 | 68 | 0/5 | 70 | 103 | — | 0.05 | 0.027 | — | 100 | — | 100 | 110 | 7 | 5 | 15 | 45 | PDIP-8, SO-8, SOT23-5 |
| LMC6061A | NAT | 606/8 | 800 | 4 | 75 | -0.1-2.7 | 75 | 100 | — | 0.1 | 35 | — | — | — | — | 83 | 13 | 4.5 | 15 | 32 | PDIP-8, SOIC-8 |
| OPA336 | BB | 606/8 | 125 | 60 | 80 | -0.2/4 | 80 | 100 | 90 | 0.1 | 0.03 | 100 | 70 | 100 | 70 | 40 | 5 | 2.3 | 5.5 | 32 | SOT-23, PDIP, SO-8 |
| OPA336A | BB | 606/8 | 500 | 60 | 80 | -0.2/4 | 80 | 100 | 90 | 0.1 | 0.03 | 100 | 70 | 100 | 70 | 40 | 5 | 2.3 | 5.5 | 32 | SOT-23, PDIP, SO-8 |
| OPA241 | BB | 606/8 | 250 | 25000 | 90 | 0-4.2 | 80 | 100 | 100 | 0.035 | 0.01 | 100 | 200 | 100 | 200 | 45 | 24, 4 | 2.7 | 36 | 30 | 8-PDIP, 8-SO |
| LMC6041 | NAT | 606/8 | 6000 | 4 | 62 | 0/3 | 62 | 98 | — | 0.075 | 0.02 | 130 | — | 130 | — | 83 | 22 | 5 | 15 | 26 | PDIP-8, SO-8 |
| LMC6061 | NAT | 606/8 | 350 | 4 | 75 | -0.1-2.7 | 75 | 100 | — | 0.1 | 35 | — | — | — | — | 83 | 13 | 4.5 | 15 | 24 | PDIP-8, SOIC-8 |
| OP193E | ADI | 606/8 | 75 | 15000 | 100 | 0-4 | 100 | 106 | — | 0.035 | 0.012 | 900 | — | 160 | — | 65 | 8 | 3 | 36 | 22 | 8-PDIP, 8-SO |
| OP193F | ADI | 606/8 | 150 | 20000 | 97 | 0-4 | 100 | 106 | — | 0.035 | 0.012 | 900 | — | 160 | — | 65 | 8 | 3 | 36 | 22 | 8-PDIP, 8-SO |
| ILC7611A-L | HA | 606/8 | 2000 | 400 | 80 | 0.6/4.4 | 76 | 86 | — | 0.044 | 0.016 | 100 | — | 100 | — | 100 | — | 2 | 10 | 20 | PDIP-8, SO-8, TO-99 |
| ILC7611B-L | HA | 606/8 | 5000 | 400 | 80 | 0.6/4.4 | 70 | 80 | — | 0.044 | 0.016 | 100 | — | 100 | — | 100 | — | 2 | 10 | 20 | PDIP-8, SO-8, TO-99 |
| ILC7611C-L | HA | 606/8 | 15000 | 400 | 80 | 0.6/4.4 | 70 | 80 | — | 0.044 | 0.016 | 100 | — | 100 | — | 100 | — | 2 | 10 | 20 | PDIP-8, SO-8, TO-99 |
| ILC7612A-L | HA | 606/8 | 2000 | 400 | 80 | -0.3/5.3 | 76 | 86 | — | 0.044 | 0.016 | 100 | — | 100 | — | 100 | — | 2 | 10 | 20 | PDIP-8, SO-8, TO-99 |
| ILC7612B-L | HA | 606/8 | 5000 | 400 | 80 | -0.3/5.3 | 70 | 80 | — | 0.044 | 0.016 | 100 | — | 100 | — | 100 | — | 2 | 10 | 20 | PDIP-8, SO-8, TO-99 |
| ILC7612C-L | HA | 606/8 | 15000 | 400 | 80 | -0.3/5.3 | 70 | 80 | — | 0.044 | 0.016 | 100 | — | 100 | — | 100 | — | 2 | 10 | 20 | PDIP-8, SO-8, TO-99 |
| LMC6041A | NAT | 606/8 | 3000 | 4 | 68 | 0/3 | 68 | 100 | — | 0.075 | 0.02 | 80 | — | 80 | — | 83 | 22 | 5 | 15 | 20 | PDIP-8, SO-8 |
| MAX4040 | MAX | 606/8 | 1500 | 20000 | 75 | 0-5 | 70 | 74 | — | 0.09 | 0.04 | 90 | — | 60 | — | 70 | 25 | 2.4 | 5.5 | 20 | 8-SO, 8-uMAX, SOT23-5 |
| MAX4041 | MAX | 606/8 | 1500 | 20000 | 75 | 0-5 | 70 | 74 | — | 0.09 | 0.04 | 90 | — | 60 | — | 70 | 25 | 2.4 | 5.5 | 20 | 8-SO, 8-uMAX |
| TLC1078I | TI | 606/8 | 450 | 2000 | 75 | -0.2/4 | 70 | 108 | — | 0.085 | 0.035 | 1800 | — | 25 | — | — | — | 3 | 16 | 17 | PDIP, CDIP, SO-8, PLCC-19 |
| **2-CHANNEL DEVICES** | | | | | | | | | | | | | | | | | | | | | |
| MCP607 | MCHP | — | 250 | 80 | 80 | -0.3-3.8 | 75 | 105 | 100 | 0.155 | 0.08 | 50 | 100 | 50 | 100 | 38 | 17 | 2.5 | 5.5 | 25 | PDIP-8, SO-8, TSSOP-8 |
| AD8542 | ADI | 607 | 6000 | 100 | 65 | 0-5 | 40 | 86 | — | 1 | 0.92 | — | 100 | — | 100 | 42 | — | 2.5 | 6 | 65 | SOIC-8, TSSOP-8 |
| LMC6572A | NAT | 607 | 3000 | 10 | 67 | 0/3.7 | 63 | 114(typ) | — | 0.22 | 0.09 | 40 | 250 | 40 | 250 | 45 | 2.5 | 2.7 | 11 | 60 | PDIP, SO-8, SSOP |
| LMC6572B | NAT | 607 | 7000 | 10 | 60 | 0/3.7 | 60 | 114(typ) | — | 0.22 | 0.09 | 50 | 250 | 60 | 250 | 45 | 2.5 | 2.7 | 11 | 60 | PDIP, SO-8, SSOP |
| OP296G | ADI | 607 | 300 | 50000 | 85 | 0-5 | 65 | 104 | — | 0.35 | 0.3 | 150 | 700 | 70 | 550 | 26 | 4 | 3 | 12 | 60 | 8-PDIP, 8-SO, 8-TSSOP |
| OP296H | ADI | 607 | 800 | 50000 | 85 | 0-5 | 65 | 104 | — | 0.35 | 0.3 | 150 | 700 | 70 | 550 | 26 | 4 | 3 | 12 | 60 | 8-PDIP, 8-SO, 8-TSSOP |
| OPA2336 | BB | 607 | 125 | 60 | 80 | -0.2/4 | 80 | 100 | 90 | 0.1 | 0.03 | 100 | 500 | 100 | 500 | 40 | 5 | 2.3 | 5.5 | 32 | PDIP, SO-8, MSOP-8 |
| OPA2336A | BB | 607 | 500 | 60 | 80 | -0.2/4 | 76 | 90 | 90 | 0.1 | 0.03 | 100 | 500 | 100 | 500 | 40 | 5 | 2.3 | 5.5 | 32 | PDIP, SO-8, MSOP-8 |
| OPA2241 | BB | 607 | 250 | 25000 | 90 | 0-4.2 | 80 | 100 | 100 | 0.035 | 0.01 | 100 | 200 | 100 | 200 | 45 | 24, 4 | 2.7 | 36 | 30 | 8-PDIP, 8-SO |
| LMC6462A | NAT | 607 | 500 | 200 | 70 | 0/5 | 70 | 128(typ) | — | 0.05 | — | 25 | — | 25 | — | 80 | 19 | 3 | 5 | 27.5 | PDIP, SO-8 |
| LMC6462B | NAT | 607 | 3000 | 200 | 65 | 0/5 | 65 | 128(typ) | — | 0.05 | — | 50 | — | 50 | — | 80 | 19 | 3 | 5 | 27.5 | PDIP, SO-8 |
| LMC6062A | NAT | 607 | 800 | 4 | 75 | -0.1-2.7 | 75 | 100 | — | 0.1 | 35 | — | — | — | — | 83 | 13 | 4.5 | 15 | 23 | PDIP-8, SOIC-8 |
| OP293E | ADI | 607 | 100 | 15000 | 100 | 0-4 | 100 | 106 | — | 0.035 | 0.012 | 900 | — | 160 | — | 65 | 8 | 3 | 36 | 22 | 14-PDIP, 16-SO |
| OP293F | ADI | 607 | 250 | 20000 | 97 | 0-4 | 96 | 106 | — | 0.035 | 0.012 | 900 | — | 160 | — | 65 | 8 | 3 | 36 | 22 | 8-PDIP, 8-SO |
| MAX4042 | MAX | 607 | 1500 | 20000 | 75 | 0-5 | 70 | 74 | — | 0.09 | 0.04 | 90 | — | 60 | — | 70 | 25 | 2.4 | 5.5 | 20 | 8-SO, 8-uMAX |
| MAX4043 | MAX | 607 | 1500 | 20000 | 75 | 0-5 | 70 | 74 | — | 0.09 | 0.04 | 90 | — | 60 | — | 70 | 25 | 2.4 | 5.5 | 20 | 14-SO, 10-uMAX |
| OP290E | ADI | 607 | 200 | — | 105 | 0-4 | 90 | 100 | — | 0.02 | 0.05 | 800 | — | 0.05 | — | — | — | 3 | 30 | 20 | 8-PDIP, 16-SO, 8-HER, LCC |
| OP290F | ADI | 607 | 300 | — | 105 | 0-4 | 80 | 98 | — | 0.02 | 0.05 | 800 | — | 0.05 | — | — | — | 3 | 30 | 20 | 8-PDIP, 16-SO, 8-HER, LCC |
| OP290G | ADI | 607 | 5000 | — | 100 | 0-4 | 80 | 97 | — | 0.02 | 0.05 | 800 | — | 0.05 | — | — | — | 3 | 30 | 20 | 8-PDIP, 16-SO, 8-HER, LCC |
| TLC1079I | TI | 607 | 850 | 2000 | 70 | -0.2/4 | 70 | 108 | — | 0.085 | 0.035 | 1800 | — | 25 | — | — | — | 3 | 16 | 17 | CDIP-14, SO-14, PLCC-19, PDIP-14 |
| LMC6062 | NAT | 607 | 350 | 4 | 75 | -0.1-2.7 | 75 | 100 | — | 0.1 | 35 | — | — | — | — | 83 | 13 | 4.5 | 15 | 16 | PDIP-8, SOIC-8 |
| **4-CHANNEL DEVICES** | | | | | | | | | | | | | | | | | | | | | |
| MCP609 | MCHP | — | 250 | 80 | 80 | -0.3-3.8 | 75 | 105 | 100 | 0.155 | 0.08 | 50 | 100 | 50 | 100 | 38 | 17 | 2.5 | 5.5 | 25 | PDIP-14, SO-14, TSSOP-14 |
| AD8544 | ADI | 609 | 6000 | 100 | 65 | 0-5 | 40 | 86 | — | 1 | 0.92 | — | 100 | — | 100 | 42 | — | 2.5 | 6 | 65 | SOIC-14, TSSOP-14 |
| LMC6574A | NAT | 609 | 3000 | 10 | 67 | 0/3.7 | 63 | 114(typ) | — | 0.22 | 0.09 | 20 | 150 | 30 | 150 | 45 | 2.5 | 2.7 | 11 | 60 | PDIP-14, SO-14 |
| LMC6574B | NAT | 609 | 7000 | 10 | 60 | 0/3.7 | 60 | 114(typ) | — | 0.22 | 0.09 | 50 | 250 | 60 | 250 | 45 | 2.5 | 2.7 | 11 | 60 | PDIP-14, SO-14 |
| OP496G | ADI | 609 | 300 | 50000 | 85 | 0-5 | 65 | 104 | — | 0.35 | 0.3 | 150 | 700 | 70 | 550 | 26 | 4 | 3 | 12 | 60 | 14-PDIP, 12-SO, 14-TSSOP |
| OP496H | ADI | 609 | 800 | 50000 | 85 | 0-4 | 65 | 104 | — | 0.35 | 0.3 | 150 | 700 | 70 | 550 | 26 | 4 | 3 | 12 | 60 | 14-PDIP, 12-SO, 14-TSSOP |

* Unless otherwise specified, $V_{DD}$ = 5V, $V_{SS}$ = GND, $T_A$ = 25°C, $V_{CM}$ = $V_{DD}$/2

# MICROCHIP – MCP606/7/8/9 OPERATIONAL AMPLIFIER CROSS REFERENCE (AUGUST 2000)(CONTINUED)

| 4-CHANNEL DEVICES (CONTINUED) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OPA4336A | BB | 609 | 500 | 60 | 80 | -0.2/4 | 80 | 100 | 90 | 0.1 | 0.03 | 100 | 70 | 100 | 70 | 40 | 5 | 2.3 | 5.5 | 32 | PDIP-14, SSOP-16 |
| OPA4241 | BB | 609 | 250 | 25000 | 90 | 0-4.2 | 80 | 100 | 100 | 0.035 | 0.01 | 100 | 200 | 100 | 200 | 45 | 24, 4 | 2.7 | 36 | 30 | 14-PDIP, SO-14 |
| LMC6464A | NAT | 609 | 500 | 200 | 70 | 0/5 | 70 | 128(typ) | — | 0.05 | — | 25 | — | 25 | — | 80 | 19 | 3 | 5 | 27.5 | PDIP-14, SO-14 |
| LMC6464B | NAT | 609 | 3000 | 200 | 65 | 0/5 | 65 | 128(typ) | — | 0.05 | — | 50 | — | 50 | — | 80 | 19 | 3 | 5 | 27.5 | PDIP-14, DO-14 |
| LMC6064A | NAT | 609 | 800 | 4 | 75 | -0.1-2.7 | 75 | 100 | — | 0.1 | 35 | — | — | — | — | 83 | 13 | 4.5 | 15 | 23 | PDIP-14, SOIC-14 |
| OP493E | ADI | 609 | 125 | 15000 | 100 | 0-4 | 96 | 106 | — | 0.035 | 0.012 | 900 | — | 160 | — | 65 | 8 | 3 | 36 | 22 | 8-PDIP, 8-SO |
| OP493F | ADI | 609 | 275 | 20000 | 97 | 0-4 | 96 | 106 | — | 0.035 | 0.012 | 900 | — | 160 | — | 65 | 8 | 3 | 36 | 22 | 14-PDIP, 16-SO |
| MAX4044 | MAX | 609 | 2000 | 20000 | 75 | 0-5 | 70 | 74 | — | 0.09 | 0.04 | 90 | — | 60 | — | 70 | 25 | 2.4 | 5.5 | 20 | 14-SO |
| LMC6064 | NAT | 609 | 350 | 4 | 75 | -0.1-2.7 | 75 | 100 | — | 0.1 | 35 | — | — | — | — | 83 | 13 | 4.5 | 15 | 19 | PDIP-14, SOIC-14 |
| LMC6044 | NAT | 609 | 6000 | — | 62 | -0.1/2.7 | 62 | 94 | — | 0.1 | 0.01 | 130 | — | 130 | — | 83 | 13 | 4.5 | 15.5 | 18.75 | PDIP-14, SO-14 |
| LMC6044A | NAT | 609 | 3000 | — | 68 | -0.1/2.7 | 68 | 100 | — | 0.1 | 0.015 | 80 | — | 80 | — | 83 | 15 | 4.5 | 15.5 | 16.25 | PDIP-14, SO-14 |

* Unless otherwise specified, $V_{DD}$ = 5V, $V_{SS}$ = GND, $T_A$ = 25°C, $V_{CM}$ = $V_{DD}$/2


**Microchip Technology Inc.** • 2355 W. Chandler Blvd. • Chandler, AZ 85224-6199 • 480-792-7200 • FAX 480-792-9210 • See us on the Web: www.microchip.com