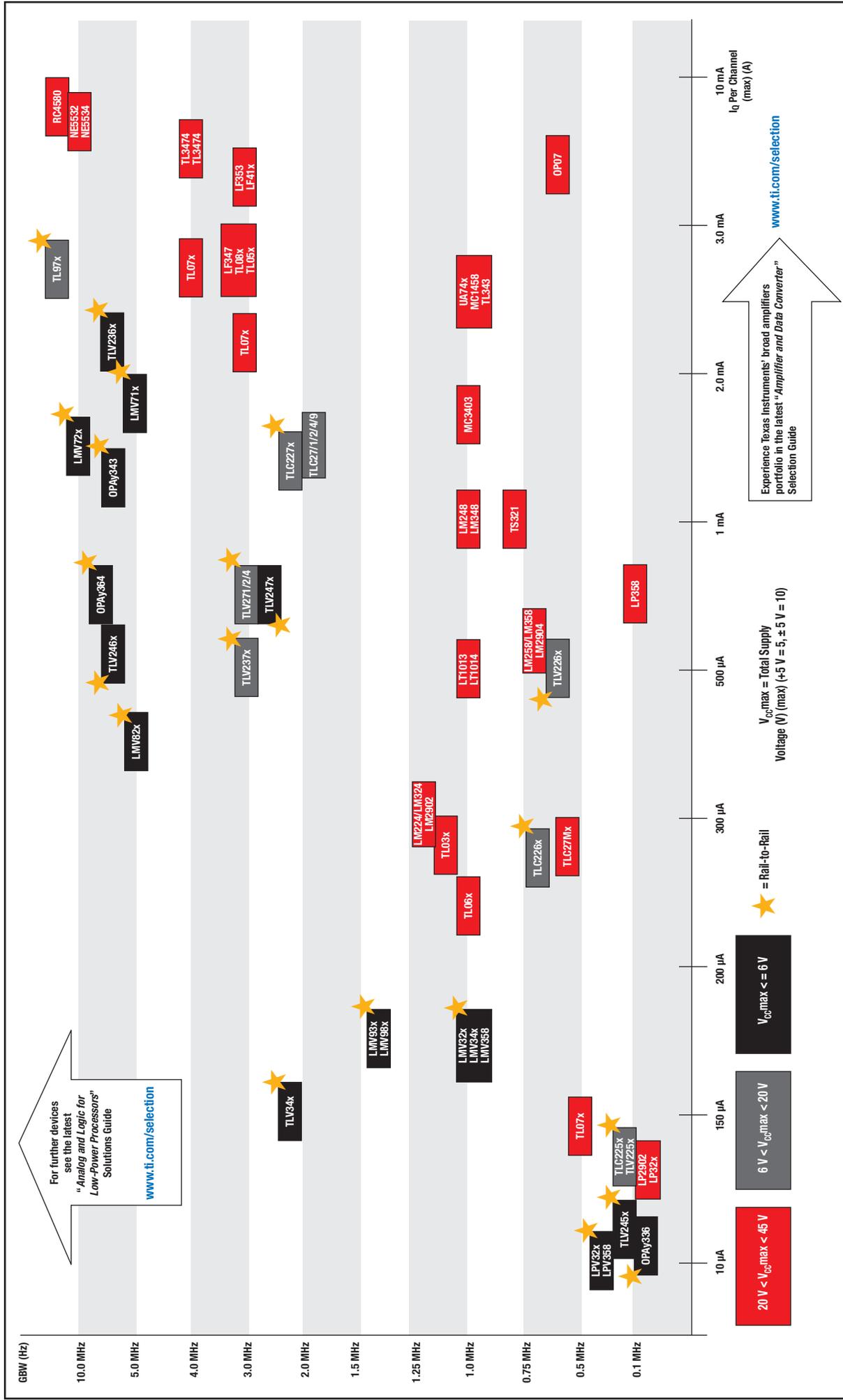


Industry Standard Operational Amplifiers



| Device | Description/Feature | # Of Ch. | V _{CC} (V) (min) | V _{CC} (V) (max) | I _Q Per Ch. (mA) (max) | GBW (MHz) (typ) | Slew Rate (V/μs) (typ) | Single Supply | Rail-to-Rail | Package |
|-------------|-----------------------------------------------------------------------------------------|----------|---------------------------|---------------------------|-----------------------------------|-----------------|------------------------|---------------|--------------|---------------------------------|
| LF347 | Wide-Bandwidth JFET-input Quad Operational Amplifier | 4 | 7 | 36 | 2.75 | 3 | 13 | No | — | PDIP, SOIC |
| LF353 | Dual General-Purpose JFET-input Operational Amplifier | 2 | 7 | 36 | 3.25 | 3 | 13 | No | — | PDIP, SOIC |
| LF41x | Precision JFET-input Operational Amplifier | 1, 2 | 7 | 36 | 3.4 | 3 | 13 | No | — | PDIP, SOIC |
| LM248/LM348 | Quadruple Operational Amplifier | 4 | 8 | 36 | 1.125 | 1 | 0.5 | No | — | PDIP, SOIC |
| LM2902 | Quadruple Operational Amplifier | 4 | 3 | 26 | 0.3 | 1.2 | 0.5 | Yes | — | PDIP, SO, SOIC, SSOP, TSSOP |
| LM2904 | Dual Operational Amplifier | 2 | 3 | 26 | 0.6 | 0.7 | 0.3 | Yes | — | MSOP, PDIP, SO, SOIC, TSSOP |
| LM224/LM324 | Quadruple Operational Amplifier | 4 | 3 | 32 | 0.3 | 1.2 | 0.5 | Yes | — | PDIP, SO, SOIC, SSOP, TSSOP |
| LM258/LM358 | Dual Operational Amplifiers | 2 | 3 | 32 | 0.6 | 0.7 | 0.3 | Yes | — | MSOP, PDIP, SO, SOIC, TSSOP |
| LP290x | Ultra-Low-Power Operational Amplifier | 2, 4 | 3 | 32 | 0.037 | 0.1 | 0.05 | No | — | PDIP, SOIC, TSSOP |
| LP324 | Ultra-Low-Power Quadruple Operational Amplifiers | 4 | 3 | 32 | 0.037 | 0.1 | 0.05 | No | — | PDIP, SOIC, TSSOP |
| LP358 | Ultra-Low-Power Dual Operational Amplifier | 2 | 3 | 32 | 0.75 | 0.1 | 0.05 | No | — | SOIC |
| LT1013 | Dual Precision Operational Amplifier | 2 | 4 | 44 | 0.55 | 1 | 0.4 | Yes | — | PDIP, SOIC |
| LT1014 | Quad Precision Operational Amplifier | 4 | 5 | 44 | 0.55 | 1 | 0.4 | Yes | — | CDIP, PDIP, LCCC |
| MC1458 | Dual General-Purpose Operational Amplifier | 2 | 10 | 30 | 2.8 | 1 | 0.5 | No | — | PDIP, SO, SOIC |
| MC3403 | Quad Low-Power General-Purpose Operational Amplifier | 4 | 5 | 30 | 1.75 | 1 | 0.6 | Yes | — | PDIP, SO, SOIC, TSSOP |
| NE5532 | Dual Low-Noise High-Speed Audio Operational Amplifier | 2 | 10 | 30 | 4 | 10 | 9 | No | — | PDIP, SO, SOIC |
| NE5534 | Low-Noise High-Speed Audio Operational Amplifier | 1 | 10 | 30 | 8 | 10 | 13 | No | — | PDIP, SO, SOIC |
| OP07D | Low-Offset Voltage Operational Amplifier | 1 | 6 | 36 | 5 | 0.6 | 0.3 | No | — | PDIP, SO, SOIC |
| RC4559 | Dual High-Performance Operational Amplifier | 2 | 10 | 30 | 2.8 | 4 | 2 | No | — | PDIP, SOIC |
| RC4580 | Dual Audio Operational Amplifier | 2 | 4 | 32 | 4.5 | 12 | 5 | No | — | PDIP, SOIC, TSSOP |
| TL022 | Dual Low-Power General-Purpose Operational Amplifier | 2 | 10 | 30 | 0.125 | 0.5 | 0.5 | No | — | PDIP, SO, SOIC |
| TL03x | Enhanced JFET Low-Power Precision Operational Amplifier | 1, 2, 4 | 10 | 30 | 0.28 | 1.1 | 5.1 | No | — | PDIP, SO, SOIC, TSSOP |
| TL051 | Enhanced JFET Precision Operational Amplifier | 1 | 10 | 30 | 3.2 | 3.1 | 20 | No | — | PDIP, SOIC |
| TL052 | Dual Enhanced JFET Precision Operational Amplifier | 2 | 10 | 30 | 2.8 | 3 | 20.7 | No | — | PDIP, SO, SOIC |
| TL054 | Quad Enhanced JFET Precision Operational Amplifier | 4 | 10 | 30 | 2.8 | 2.7 | 17.8 | No | — | PDIP, SO, SOIC, SSOP |
| TL06x | Low-Power JFET-Input Operational Amplifier | 1, 2, 4 | 7 | 36 | 0.25 | 1 | 3.5 | No | — | PDIP, SO, SOIC, TSSOP, SSOP |
| TL07x | Low-Noise JFET-Input Operational Amplifier | 1, 2, 4 | 7 | 36 | 2.5 | 3 | 13 | No | — | PDIP, SO, SOIC, TSSOP |
| TL08x | JFET-Input Operational Amplifier | 1, 2, 4 | 7 | 36 | 2.8 | 3 | 13 | No | — | PDIP, SO, SOIC, TSSOP |
| TL343 | Single Low-Power Operational Amplifier | 1 | 3 | 30 | 2.8 | 1 | 1 | Yes | — | SOT-23 |
| TL347x | High-Slew-Rate, Single-Supply Operational Amplifier | 2, 4 | 4 | 36 | 4.5 | 4 | 13 | Yes | — | PDIP, SOIC, TSSOP |
| TL97x | Output Rail-to-Rail Very-Low-Noise Operational Amplifier | 1, 2, 4 | 2.7 | 12 | 2.8 | 12 | 5 | No | Out | SOIC |
| TLC225x | LinCMOS, RRO, V _S = 4.4 V to 16 V, Micropower Operational Amplifier | 2, 4 | 4.4 | 16 | 0.0625 | 0.2 | 0.12 | Yes | Out | PDIP, SOIC, TSSOP |
| TLC226x | LinCMOS, RRO, Low Noise, Operational Amplifier | 2, 4 | 4.4 | 16 | 0.25 | 0.71 | 0.55 | Yes | Out | PDIP, SOIC, TSSOP |
| TLC227x | LinCMOS, Low I _b = 1 pA, RRO Operational Amplifier ESD Protection, Low Noise | 2, 4 | 4.4 | 16 | 1.5 | 2.18 | 3.6 | Yes | Out | PDIP, SO, SOIC, TSSOP |
| TLC271/2/4 | LinCMOS, Programmable, V _S = 3 V to 16 V, Internal | 1, 2, 4 | 3 | 16 | 1.6 | 1.7 | 3.6 | Yes | — | PDIP, SO, SOIC, TSSOP, SSOP |
| TLV225x | LinCMOS, RRO, Low I _b 1 pA, Low Noise 19 μV/√Hz @ f = 1kHz (typ) | 2, 4 | 2.7 | 16 | 0.0625 | 0.187 | 0.1 | Yes | Out | PDIP, SOIC |
| TLV226x | LinCMOS, RRO, V _S = 2.7 V to 16 V Operational Amplifiers | 2, 4 | 2.7 | 16 | 0.5 | 0.67 | 0.55 | Yes | Out | PDIP, SOIC, TSSOP |
| TLV237x | CMOS, RRIO, W/Shutdown 25 μA/channel, V _S = 2.7 V to 16 V (±1.35 to ±V) | 1, 2, 4 | 2.7 | 15 | 0.55 | 3 | 2 | Yes | I/O | SOT-23, PDIP, SOIC, MSOP, TSSOP |
| TLV271/2/4 | CMOS, RRO, Low I _b = 1 pA, Next Generation TLC27x, SOT23 and MSOP Packages | 1, 2, 4 | 2.7 | 15 | 0.66 | 3 | 2.4 | Yes | Out | SOT-23, PDIP, SOIC, MSOP, TSSOP |
| TS321 | Low-Power Single Operational Amplifier | 1 | 3 | 30 | 1 | 0.8 | 0.4 | No | — | SOT-23, SOIC |
| UA74x | General-Purpose Operational Amplifier | 1, 2 | 7 | 36 | 2.8 | 1 | 0.5 | No | — | PDIP, SO, SOIC |



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