

Amplifiers (Continued)

Precision Amplifiers (Continued)

Mfr.'s Type	Vos Max. (μV)	Vos TC Max. (μV/°C)	Noise μVp-p 0.1-10 Hz Typ.	GBW Typ. (MHz)	Slew Rate (V/μs Typ.)	Ib nA Max.	CMRR dB f=1 kHz Typ.	Single Dual Quad
AD708JN	100	1.0	0.23	0.9	0.30	2.500	140	D
OP400AY	150	1.2	0.50	0.5	0.15	3.000	140	Q
OP400EY	150	1.2	0.50	0.5	0.15	3.000	140	Q
OP400FY	230	2.0	0.50	0.5	0.15	6.000	140	Q
OP400GP	300	2.5	0.50	0.5	0.15	7.000	135	Q
AD713JN	1500	5.0	2.00	4.0	20.00	0.150	88	Q
AD713JR-16	1500	5.0	2.00	4.0	20.00	0.150	88	Q

Single Supply Amplifiers

Mfr.'s Type	ISY Max. (mA)	Vos Max. (mV)	Supply Voltage Range (V)	GBW Typ. (MHz)	SR Typ. (V/μs)	Single Dual Quad
OP196GS	0.060	300.000	+3.0 to +12	0.350	0.25	S
AD820AN	0.700	1.000	+4.0 to +36	2.000	3.50	S
OP184ES	1.350	65.000	+3.0 to ±15	3.250	2.40	S
OP113FP	2.000	0.150	+4.0 to ±18	3.400	1.20	S
OP295GP	0.300	0.300	+3.0 to +36	0.075	0.03	D
OP295GS	0.300	0.300	+3.0 to +36	0.075	0.03	D
OP221AZ	0.550	0.150	+5.0 to +30	0.600	0.30	D
AD822AN	0.700	1.000	+4.0 to +36	2.000	3.50	D
AD822AR	0.700	1.000	+4.0 to +36	2.000	3.50	D
AD822BN	0.700	0.500	+4.0 to +36	2.000	3.50	D
OP291GP	0.700	0.700	+2.7 to +12	3.000	1.00	D
OP291GS	0.700	0.700	+2.7 to +12	3.000	1.00	D
OP262GS	0.700	325.000	+3.0 to +12	15.000	10.00	D
OP213FP	1.750	0.300	+4.0 to ±18	3.500	—	D
OP213FS	1.750	0.300	+4.0 to ±18	3.500	—	D
OP495GP	0.600	0.300	+3.0 to +36	0.075	0.03	Q
OP491GS	1.400	0.700	+2.7 to +12	3.000	1.00	Q

Current Feedback High Speed Amplifiers

Mfr.'s Type	Slew Rate Typ. (V/μs)	GBW Typ. (MHz)	Settling Time Typ. (ns-%)	Vos Typ. (mV)	I _{out} Min. (mA)	Supply Current Typ. (mA)	Single Dual Quad
AD844AN	2000	60	100-0.10	0.050	60	6.5	S
AD811AN	2500	1000	65-0.01	0.500	100 typ.	16.5	S
AD811AR-16	2500	1000	65-0.01	0.500	100 typ.	16.5	S
AD811JR	2500	1000	65-0.01	0.500	100 typ.	16.5	S
AD8009AR	5500	1000	10-0.10	2.000	150	14.0	S
AD846AN	450	80	110-0.01	0.025	65	5.0	S
AD812AN	1600	100	40	2.000	40	4.5	D

Voltage Feedback High Speed Amplifiers

AD845KN	100	16	350-0.01	0.100	50	10.0	S
AD843JN	250	34	135-0.01	1.000	50	12.0	S
AD843KN	250	34	135-0.01	0.500	50	12.0	S
AD841JN	300	40	110-0.01	0.800	50	11.0	S
AD847JN	300	50	120-0.01	0.500	32	5.3	S
AD847JR	300	50	120-0.01	0.500	32	5.3	S
AD817AN	350	50	70-0.01	0.500	50	7.0	S
AD817AR	350	50	70-0.01	0.500	50	7.0	S
AD842JN	375	80	100-0.01	0.500	100	13.0	S
AD829JN	230	750	65-0.10	0.200	20 typ.	5.3	S
AD829JR	230	750	65-0.10	0.200	20 typ.	5.3	S
AD827JN	300	50	120-0.10	0.500	20 typ.	10.5	D
AD826AN	350	50	70-0.01	0.500	50	7.0	D
AD826AR	350	50	70-0.01	0.500	50	7.0	D
AD828AN	500	260	80-0.01	0.500	50	7.0	D
OP467GP	170	25	170-0.01	0.200	10	8.0	Q
OP467GS	170	25	170-0.01	0.200	10	8.0	Q

Difference Amplifiers

Mfr.'s Type	Slew Rate Typ. (V/μs)	GBW Typ. (MHz)	Settling Time Typ. (ns-%)	Vos Typ. (mV)	I _{out} Min. (mA)	Supply Current Typ. (mA)	Single Dual Quad
AD830AN	530	100	25-0.10	1.500	50	14.5	S
AD830JR	530	100	25-0.10	1.500	50	14.5	S

Buffer Amplifiers

Mfr.'s Type	−3 dB BW Typ. (MHz)	SR Min. (V/μs)	Settling Time to 0.02% Typ. (ns)	Rise Time 1 V Step Typ. (ns)	I _{out} Min. (mA)	Vos Typ. (mV)	I _{ss} Max. (mA)	Mfr.'s Type	−3 dB BW Typ. (MHz)	SR Min. (V/μs)	Settling Time to 0.02% Typ. (ns)	Rise Time 1 V Step Typ. (ns)	I _{out} Min. (mA)	Vos Typ. (mV)	I _{ss} Max. (mA)
BUF04GP	110	2000	60 (0.1%)	0.5	±65	0.3	8.5	BUF04GS	110	2000	60 (0.1%)	0.5	±65	0.3	8.5

Audio Amplifiers

Mfr.'s Type	Description
OP275GP	Dual, bipolar/JFET amplifier featuring low distortion (0.0006%) at low supply current (5 mA). Noise = 6 nV/√Hz, SR = 22 V/μs, GBW = 9 MHz Dual, bipolar/JFET amplifier featuring low distortion (0.0006%) at low supply current (5 mA). Noise = 6 nV/√Hz, SR = 22 V/μs, GBW = 9 MHz Voltage controlled amplifier, highest performance available; no external amp required Dual, single supply amplifier offering high output drive capability with excellent sonic characteristics; 5.2 nV/√Hz, 0.001% THD+N High CMR differential line receiver complementing the SSM2142 line driver Balanced differential line driver, capable of driving 10 V RMS into a 600 Ω load −6 dB differential line receiver; CMR = 90 dB typ. with ultra low THD (0.0006% typ.) Microphone preamp with variable compression and Noise Gating
OP275GS	
SSM2018P	
SSM2135P	
SSM2141P	
SSM2142P	
SSM2143P	
SSM2166P	