

# Amplifiers, A/D and D/A Converters & Op Amps

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Audio Amps

\*Web Code: MBP

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
243678	ADI	OP275GP	DIP-8	Dual JFET audio op amp	\$2.25	\$1.85	\$1.49
24037	NSC	LM380N	DIP-14	2-watt, power amp	1.39	1.09	.75
24088	NSC	LM383T	TO-220/5	7-watt, high power	5.95	5.49	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amp	1.59	1.29	.95
839586	NSC	LM384N/NOBP	DIP-14	5-watt audio power amp	1.69	1.39	1.05
24125	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V	.79	.59	.45
24126	NSC	LM386N-1	DIP-8	Low voltage, 250mW/6V	.65	.49	.41
839826	NSC	LM386N-1/NOBP	DIP-8	Low voltage audio power amp	.99	.79	.55
24133	NSC	LM386N-3*	DIP-8	Low voltage, 500mW/9V	.69	.59	.49
24483	NSC	LM725CN	DIP-8	Instrumentation op amplifier	1.95	1.25	.95
295718	NSC	LM1203N	DIP-28	RGB video amp	5.95	5.49	4.95
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation)	2.95	2.75	2.49
23270	NSC	LM1875T	TO-220/5	20-watt audio power amp	2.95	2.49	1.95
835753	NSC	LM1875T/LB03	TO-220/5	20-watt audio power amp	2.49	2.25	1.85
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	1.95	1.75	1.49
107140	NSC	LM1881N	DIP-8	Video synchronous separator	2.49	2.25	1.59
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp	4.95	4.49	3.95
1416999	ST	TDA2030V	PWAT-5	14-watt hi-fi audio amp	3.75	3.25	2.59
315344	ST	TDA2040V	PWAT-5	20-watt hi-fi power	2.25	1.95	1.75
275830	TI	OPA2134PA	DIP-8	High performance audio op amp	2.15	2.05	1.95
275821	ADI	OPA2134UA	SOIC-8	High-performance audio op amp	1.95	1.69	1.45
312063	ADI	SSM2141P	DIP-8	High common-mode rejection diff. line rec.	2.95	2.15	1.95
126834	NSC	LM3876T	TO-220/11	40W high perf. audio amp w/ mute	3.95	3.49	3.25
320670	NSC	LM3886TF	TO-220/11	68-watt high perf., isol. pkg.	5.95	4.95	4.25
192516	NSC	LM3886T	TO-220/11	68-watt high perf.	5.95	4.95	3.95
302201	NSC	LM4752T	TO-220/7	Stereo 11-watt audio power amp	2.95	2.75	2.49
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	1.19	1.09	.89
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	2.25	2.05	1.85

\*10 pieces included in Linear kit, pg 16    \*Blue Part No. = Limited Quantity Available

\*Instrumentation Amps Available Online — Enter Web Code NDA

## AMPLIFIERS

Part No.	*Mfr.	Part No.	Pkg.	Description	1	10	100
1805943	ADXL	213AE	LCC-8	5V, low cost $\pm$ 2g dual-axis accelerometer	\$16.95	\$15.95	\$14.95
1778068	AD5	24AD	CDIP-16	Precision instrumentation amp	19.95	19.49	18.95
1780862	AD6	20ANZ	DIP-8	Low cost, LP instrumentation amp	6.55	5.35	5.25
1781021	AD6	24AD	CDIP-16	Precision instrumentation amp	23.95	23.49	22.95
1781136	AD6	27AR	SOIC-8	Low cost, instrumentation amp	4.95	3.95	3.49
311132	AD8	11AN	DIP-8	High performance, video op amp	7.49	6.25	5.75

## A/D & D/A Converters

\*Web Code: OAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
277149	MAX	MAX110ACWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-ch	\$9.95	\$8.75	\$8.25
277131	MAX	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-ch	12.95	9.95	9.49
277122	MAX	MAX110BCWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-ch	8.95	6.75	6.25
277165	MAX	MAX186BCPP	DIP-20	A/D, 12-bit, 5V, 6ps, 8-ch	27.95	25.95	22.95
277069	MAX	MAX197BCNI	DIP-28	A/D, 12-bit, 5V, 10Ksps, 8-ch	19.95	13.95	11.95
289545	TI	TLC540IDW	SOIC-20	A/D, 8-bit, 5V, 75Ksps	3.49	2.95	2.49
289553	TI	TLC540IFN	PLCC-20	A/D, 8-bit, 5V, 75Ksps	3.49	2.95	2.49
289596	TI	TLC541IDW	SOIC-20	A/D, 8-bit, 5V, 40Ksps	2.95	2.49	1.95
289705	TI	TLC542IFN	PLCC-20	A/D, 8-bit, 5V, 25Ksps	1.95	1.75	1.49
289713	TI	TLC545CN	DIP-28	A/D, 8-bit, 5V, 76Ksps	4.95	4.25	3.95
287312	ADI	AD676JD	DIP-28	A/D, 16-bit, 5 $\pm$ 12V, 100Ksps, 1-ch	59.95	49.95	44.95
10145	NSC	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	3.95	3.25	2.95
10153	NSC	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	2.75	2.25	1.85
828342	NSC	ADC0804LCN/NOBP	DIP-20	A/D, 8-bit $\mu$ P compatible ( $\pm$ 1LSB)	2.95	2.35	2.05
10170	NSC	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	4.75	3.95	3.39
10188	NSC	ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	2.59	2.39	2.25
831031	NSC	ADC0816CCN	DIP-40	A/D, 8-bit, $\mu$ P comp. ADC w/ 16-ch	11.95	10.25	9.25
10209	NSC	ADC0817CCN	DIP-40	A/D, 8-bit, 5V, 9.1Ksps, 16-ch	4.95	3.95	3.49
10225	NSC	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5ps	3.49	3.15	2.49
831066	NSC	ADC0820CCN/NOBP	DIP-20	A/D, 8-bit hi-spd $\mu$ P, w/ track/hold	3.65	3.25	2.65

\*ADI = Analog Devices | INS = Intersil | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | SAM = Samsung | ST = ST Micro | TI = Texas Instruments | \*Mfr. Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## A/D & D/A Converters (Continued)

\*Web Code: QAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
116100	NSC	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32ps	\$1.75	\$1.55	\$1.35
831171	NSC	ADC0831CCN/NOBP	DIP-8	A/D, 8-bit, 5V, 32ps	2.49	2.09	1.69
1252488	NSC	ADC0838CCN/NOBP	DIP-20	A/D, 8-bit serial, 5V, 32ps	2.75	2.25	1.75
290538	TI	TLC0832CD	SOIC-8	A/D, 8-bit, 3V, 32ps	2.49	2.25	1.75
288681	TI	THS1030IDW	SOIC-28	A/D, 10-bit, 3-5.5V, 30Msps	5.95	4.95	4.49
288729	TI	THS1031IPW	TSSOP-28	A/D, 10-bit, 3-5.5V, 30Msps	6.95	5.49	5.25
1748897	LTC	LTC1403AIMSE-1	MSOP-10	A/D, 14-bit, 2.8Msps samp ADC	14.95	12.95	10.95
289001	TI	TLC1541CDW	SOP-20	A/D, 10-bit, 5V, 32Ksps	4.95	4.25	3.95
289019	TI	TLC1541CN	DIP-20	A/D, 10-bit, 5V, 32Ksps	4.95	4.49	4.25
289078	TI	TLC1542CDW	SOP-20	A/D, 10-bit, 5V, 26ps, 11-ch	3.95	2.75	2.49
289107	TI	TLC1542CN	DIP-20	A/D, 10-bit, 5V, 26ps, 11-ch	3.95	3.49	3.25
289271	TI	TLC1543QDB	SSOP-20	A/D, 10-bit, 6.5V, 5V, 26ps, 11-ch	3.95	3.49	2.95
289300	TI	TLC1543QDW	SOIC-20	A/D, 10-bit, 6.5V, 5V, 26ps, 11-ch	3.95	3.49	2.95
288593	TI	PCM1800E	SSOP-24	A/D, 20-bit, 5V, 32-48kHz, 2-ch	3.49	3.25	2.95
288622	TI	PCM1801U	SOIC-14	A/D, 20-bit, 5V, 32-48kHz, 2-ch	3.95	3.49	3.25
289422	TI	TLC2543CDW	SOIC-20	A/D, 12-bit, 5V, 10ps, 11-ch	6.95	5.95	5.25
289473	TI	TLC2543CDB	SSOP-20	A/D, 12-bit, 5V, 10ps, 11-ch	6.95	5.95	5.25
290634	TI	TLV2543CDW	SOIC-20	A/D, 12-bit, 3.3V, 10ps, 11-ch	7.95	5.95	4.95
290669	TI	TLV2543CN	DIP-20	A/D, 12-bit, 3.3V, 10ps, 11-ch	7.95	5.95	4.95
288016	MCH	MCP3302-CI/SL	SOIC-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch	2.95	2.49	2.25
288024	MCH	MCP3302-CI/ST	TSSOP-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch	2.49	2.35	2.15
43748	+	7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 9V	2.25	1.95	1.75
43756	+	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, $\pm$ 5V	2.49	2.25	1.95
875683	INS	ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 6V	2.95	2.75	2.59
43764	+	7109CPL	DIP-40	A/D, 12-bit, 5V, 30sps, 1-ch	3.95	2.25	1.95
290263	INS	ICL7135CPI	DIP-28	A/D, 4 1/2-digit BCD output, 5V	2.95	2.75	2.45
1795108	ADI	AD9240ASZ	MQFP-44	A/D, 14-bit, flash method, parallel	29.95	26.95	24.95
115158	ADI	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3ps, 1-ch	12.95	11.75	10.49
1944581	SAM	KDA0408	DIP-42	D/A, 8-bit, 5V, 60Msps, triple	.49	.39	.35
14904	NSC	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.49	1.19	.89
14947	NSC	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.65	1.25	.95
14963	NSC	DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1ps	4.95	4.25	3.49
128186	NSC	DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1ps	2.95	2.49	1.95
290781	TI	TLV5604ID	SOIC-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch	5.95	4.75	4.49
290790	TI	TLV5604IPW	TSSOP-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch	5.95	4.75	4.49
290853	TI	TLV5613IPW	TSSOP-20	D/A, 12-bit, 2.7-5.5V, 3-7ps, 1-ch	5.95	4.95	3.75
290933	TI	TLV5614CPW	TSSOP-16	D/A, 12-bit, 2.7-5.5V, 5.5-2.0ps, 4-ch	10.95	9.95	8.95
296690	ADI	AD7226KN	DIP-20	D/A, 8-bit, 2-12.5V, 4ps, 4-ch	15.95	13.95	11.95
1783887	ADI	AD7398BRUZ	TSSOP-16	D/A, 12-bit, quad serial in	15.95	13.95	11.95
290052	TI	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	2.75	2.49	1.95
287380	ADI	AD9760AR	SOIC-28	D/A, 10-bit, 3-5V, 125Msps	5.95	3.95	2.95
287443	ADI	AD9832BRU	TSSOP-16	Direct digital syn., 3-5V, 25MHz	5.95	4.49	3.95

\*Blue Part No. = Limited Quantity Available

## Op Amps

\*Web Code: WAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
27852	+	OP07CP	DIP-8	Ultra-low offset voltage	\$.75	\$.65	\$.55
252988	+	OP07DP	DIP-8	Very low offset single bipolar	.69	.59	.49
23106	+	LM10CLN	DIP-8	Low voltage (1.1 volt)	2.75	2.49	1.75
120715	+	LM10CN	DIP-8	Op amp and voltage reference	2.49	2.15	1.55
1062114	TI	TLO26CP	DIP-8	Diff. high-freq. amp. w/ AGC	4.49	.39	.25
1807439	ADI	OP27AZ/883C	DIP-8	Low noise precision op amp	34.95	29.95	27.95
275805	TI	OPA27GP	DIP-8	Ultra-low noise precision	2.19	2.05	1.95
275784	TI	OPA27GU	SOIC-8	Ultra-low noise precision	2.05	1.75	1.59
115300	+	OP27EP	DIP-8	Low noise precision op amp	3.95	3.49	3.25
115318	+	OP27GP	DIP-8	Low noise prec. (-40 to 80°C)	2.49	1.95	1.59
1944812	ST	TL27L21N	DIP-8	Prec. very low pwr CMOS dual	.49	.39	.25
253059	+	TL032CD	SOIC-8	Enhanced JFET low power/offset	.69	.59	.49
214068	+	TL034CN	DIP-14	Enhanced low power/offset	.89	.79	.75
821676	TI	TLO511P	DIP-8	Enhanced JFET low offset	.39	.35	.25
33187	+	TLO71CP	DIP-8	Low noise JFET op amp	.29	.25	.22
2130							