

A/D and D/A Converters — continued

SEM79A SEM79B SEM80

12-bit A/D – cont.		Linearity	Conversion	Power	Features	Mfrs. List No.	Order Code	Price Each					
Mftr.	Pins	Error ± LSB	Time ± ½ LSB, µs	Dissipation mW (max.)				1+	10+	100+	250+	500+	
1594	LT	16◆	3	3.1	500	(4 CHANNEL) C, S, S/A, S/H.....	LT1594CS	SMD 790-930					
1674	AD	28◆	1	10	575	P, R, S/A, S/H (574/674 upgrade)....	AD1674JN	246-220					
2551	TI	8	1	1.5	19.2	(1 Channel) C, S/H, S/A, S, R/R-I/P...	TLC2551IDGK	SMD NEW 355-5896					
2551	TI	8	1	1.5	19.2	(2 Channel) C, S/H, S/A, S, R/R-I/P...	TLC2552IDGK	SMD NEW 355-5902					
2551	TI	8	1	1.5	19.2	(1 CHNL+DIFF I/P) C, S/H, S/A, S, R/R-I/P.....	TLC2555IDGK	SMD NEW 355-5914					
3201	MCHIP8		1	10	2000	C, L, R2R, S, S/A, S/H (IND TEMP)...	MCP3201CIP	316-7239					
3201	MCHIP8		1	10	2000	C, L, R2R, S, S/A, S/H (IND TEMP)...	MCP3201CISN	SMD 316-7240					
3202	MCHIP8		1	10	2000	(Dual Channel) C, L, R2R, S, S/A, S/H (IND TEMP).....	MCP3202CIP	316-7252					
3202	MCHIP8		1	10	2000	(Dual Channel) C, L, R2R, S, S/A, S/H (IND TEMP).....	MCP3202CISN	SMD 316-7264					
3204	MCHIP14		1	10	2000	(4 Channel) C, L, R2R, S, S/A, S/H (IND TEMP).....	MCP3204CIP	316-7276					
3204	MCHIP14		1	10	2000	(4 Channel) C, L, R2R, S, S/A, S/H (IND TEMP).....	MCP3204CISL	SMD 316-7288					
3208	MCHIP16		1	10	2000	(8 Channel) C, L, R2R, S, S/A, S/H (IND TEMP).....	MCP3208CIP	316-7290					
3208	MCHIP16		1	10	2000	(8 Channel) C, L, R2R, S, S/A, S/H (IND TEMP).....	MCP3208CISL	SMD 316-7306					
5812	INTS	24◆	2	20	25	C, L, S/A, T/H.....	HI5812JIP	559-040					
5956	NSC	48	1.7	0.015	750	C, R, T/H, (IND TEMP/TSSOP).....	CLC5956IMTD	SMD 120-789.					
7109	INTS	40◆	1	33K	22.5	C, P, R.....	ICL7109CPL	396-620†					
7109	MAX	40◆	1	33K	22.5	C, P, R.....	ICL7109CPL	NEW 355-7601					
7572	AD	24◆	1	12.5	135*	C, P, R, S/A.....	AD7572JN12	396-643					
7572A	AD	24◆	1	10	100*	C, P, R, S/A.....	AD7572AJN10	396-655					
7578	AD	24◆	1	100	75*	C, P, S/A.....	AD7578KN	396-667					
7582	AD	28◆	1	100	75*	(4 CHANNEL) C, P, S/A.....	AD7582KN	396-679					
7800	BB	24◆	1	2.7	215	C, L, P, R, S, S/A, S/H.....	ADS7800JP	396-692					
7806	BB	28◆	½	25	35	C, L, P, R, S, S/A, S/H.....	ADS7806P	483-345					
7806	BB	28	½	25	35	C, L, P, R, S, S/A, S/H.....	ADS7806U	SMD NEW 353-8849					
7808	BB	20◆	½	10	100	C, L, R, S, S/A, S/H.....	ADS7808P	483-369†					
7816	BB	8	½	5	2.5	C, S, S/A, S/H.....	ADS7816P	794-740					
7816	BB	8	½	5	2.5	C, S, S/A, S/H.....	ADS7816U	SMD NEW 353-8837					
7818	BB	8	±2	1.625	20	R, S, S/A, S/H (IND TEMP).....	ADS7818E	SMD NEW 353-8825					
7818	BB	8	±2	1.625	20	R, S, S/A, S/H (IND TEMP).....	ADS7818E/250	SMD 332-4138					
7818	BB	8	1	1.63	325	C, R, S, S/H (IND TEMP).....	ADS7818P	112-616					
7822	BB	8	½	13	0.5	C, S, S/A, S/H.....	ADS7822P	794-752					
7822	BB	8	½	13	0.5	C, S, S/A, S/H.....	ADS7822U	SMD NEW 353-8813					
7824	BB	28	1	25	50	(4 CHANNEL) C, L, P, S, R, S/A, S/H.....	ADS7824P	789-884					
7824	BB	28	1	25	50	(4 CHANNEL) C, L, P, S, R, S/A, S/H.....	ADS7824U	SMD NEW 353-8801					
7834	BB	8	±2	1.625	20	R, S, S/A, S/H (IND TEMP).....	ADS7834P	332-3572					
7835	BB	8	1	1.63	325	C, R, S, S/H (MSOP/IND TEMP).....	ADS7835E	SMD 300-6281					
7841	BB	16	1	0.5	250	(4 CHANNEL) C, R, S, S/A, S/H (SSOP, IND TEMP).....	ADS7841E	SMD NEW 353-5265					
7841	BB	16	1	0.5	250	(4 CHANNEL) C, R, S, S/A, S/H (IND TEMP).....	ADS7841P	112-628					
7842	BB	28◆	1	12 cycles	250	(4 CHANNEL) C, R, S/H (IND TEMP).....	ADS7842E	SMD 300-6300					
7844	BB	20	1	0.5	250	(8 CHANNEL) C, R, S (QSOP, IND TEMP).....	ADS7844E	SMD NEW 353-5277					
7853	AD	24	1	4.5	450	C, T/H, (3V).....	AD7853LAN	787-048					
7861	BB	24	¾	1.63	325	(4 CHANNEL) C, S, S/H (SSOP/IND TEMP).....	ADS7861E	SMD 300-6311					
7862	BB	32	¾	1.75	325	(4 CHANNEL) C, S/H (TQFP/IND TEMP).....	ADS7862Y	SMD 300-6323					
7864	AD	44◆	1	1.65	450	(4 CHANNEL) P, R, S/A, S/H, T/H, V..	AD7864AS-1	SMD 117-110					
7870	AD	24◆	½	10	60*	C, P, R, S, S/A, S/H.....	AD7870JN	396-709					
7880	AD	24	1	12	450	C, S/A, T/H (IND TEMP).....	AD7880BN	102-167					
7888	AD	16◆	2	8	450	C, R, S, T/H.....	AD7888AR	SMD 314-5803					
7892	AD	24◆	1	1.3	450	C, R, S/A, T/H.....	AD7892AN1	788-600					
7893	AD	8	1	6	450	C, S, S/A, T/H.....	AD7893AN5	787-061					
7896	AD	8	1	8	450	C, S, S/A, T/H.....	AD7896AN	787-073					
12081	NSC	32◆	¾	2	140	C, D/B, R, S/H (IND TEMP-TQFP).....	ADC12081CIVT	SMD 693-613					
12130	NSC	16	½	8.8	33	C, S, S/A, S/H.....	ADC12130CIN	640-487					
12132	NSC	20	½	8.8	33	(2 CHANNEL) C, S, S/A, S/H.....	ADC12132CIMS	SMD 701-129					
12138	NSC	28	½	8.8	33	(8 CHANNEL) C, S, S/A, S/H.....	ADC12138CIN	701-130					
12762	NSC	44	2	0.7	300	(2 CHANNEL) C, S/H.....	ADC12762CCV	SMD 791-738					
14-bit A/D													
14	TI	48	0.6	3MSPS	360	C, R, P, D/B, S/H.....	THS14F03IPFB	SMD NEW 355-5859					
679	AD	28	2	6.3	745	CMOS, R, P, S/H.....	AD679JN	318-2320					
7856	AD	24◆	2	3.5	450	(8 CHANNEL) C, R, S, T/H, V.....	AD7856AN	117-122					
7871	AD	28◆	½	12	60*	C, P, R, S, S/A, S/H.....	AD7871JN	396-734					
16-bit A/D													
500	TEL	16◆	0.003%	162K @ 16 bit 2.6K @ 8 bit	15	C, Programmable Res./Conv. Time....	TC500ACPE	270-799.					
677	AD	16	1.500%	10µs	630	CMOS, S.....	AD677KD	318-2319					
977	AD	20	2	5	100	C, R, S, S/A (IND TEMP).....	AD977AAN	284-087					
977	AD	20	2	10	100	C, R, S, S/A (IND TEMP).....	AD977AN	284-099					
1377	AD	32	0.006%	10µs	800	S/A, P, C, R.....	AD1377JD	318-2009					

◆ Microprocessor Compatible. * Typical Value.

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output
S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T/H = Track and Hold, V = Voltage O/P.

† Available until stocks are exhausted

Continued