



PDHonline Course E278 (3 PDH)
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**Operational Amplifiers at Higher
Frequencies**

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TABLE E-1. Linear Operational Amplifiers $T_A = 25^\circ\text{C}$.

Device	Operating Temp. Range °C		A_{VOL} Min	R_i Min	P_D mW	$ I_{io} $ Max nA	I_b Max nA	CMV $_i$ Min V	*Typ. Slew	V_o Min V	$ V_{io} $ Max mV	Offset Adjust	Internal Compensation	Output Protection	Input Protection
									Rate						
	Min	Max							SR V/ μ s						
709A	−55	+125	25	350 k	108	50	200	±8	0.3	±12	1	no	no	no	no
709B	−55	+125	25	150 k	165	200	500	±8	0.3	±12	5	no	no	no	no
709C	0	+70	15	50 k	200	500	1500	±8	0.3	±12	10	no	no	no	no
739C(Dual)	0	+70	6.5	37 k	420	1000	2000	±10	1.0	±12, −14	6	no	no	yes	yes
741B	−55	+125	50	300 k	85	200	500	±12	0.5	±12	5	yes	yes	yes	yes
741C	0	+70	20	150 k	85	200	500	±12	0.5	±12	6	yes	yes	yes	yes
747B(Dual)	−55	+125	50	300 k	85	200	500	±12	0.5	±12	5	yes	yes	yes	yes
747C(Dual)	0	+70	20	150 k	85	200	500	±12	0.5	±12	6	yes	yes	yes	yes
748B	−55	+125	50	300 k	85	200	500	±12	0.5	±12	5	yes	no	yes	yes
748C	0	+70	20	150 k	85	200	500	±12	0.5	±12	6	yes	no	yes	yes
749B(Dual)	−55	+125	25	100 k	220	400	750	±11	1.5	±12, −14.5	3	no	no	yes	yes
749C(Dual)	0	+70	15	70 k	330	500	1000	±11	1.5	+12, −14.5	6	no	no	yes	yes
800B	−55	+125	10	250 k	180	100	1000	±4	—	±6	50	no	no	no	no
800D	−55	+125	10	100 k	180	200	2000	±4	—	±12	—	no	no	no	no
801B	−55	+125	10	250 k	180	100	1000	±4	—	±12	50	no	no	no	no
801D	−55	+125	10	100 k	180	200	2000	±4	—	±12	—	no	no	no	no
805B	−55	+125	30	500 k	225	50	500	±8	2.5	±12	5	no	no	no	yes
805C	0	+100	10	100	225	100	1000	±8	2.5	±12	10	no	no	no	yes
806B	−55	+125	30	500	225	50	500	±8	2.5	±9	5	no	no	no	yes
806C	0	+100	10	100	225	100	1000	±8	2.5	±9	10	no	no	no	yes
807B	−55	+125	30	500	225	50	500	±8	2.5	±12	2.5	no	no	no	yes
808A	−55	+125	25	1 M	225	15	50	±8	2.5	±12	5	no	no	no	yes
808B	−55	+125	25	1 M	225	30	50	±8	2.5	±12	10	no	no	no	yes
809B	−55	+125	10	100	150	100	500	±10	—	±10	10	no	no	yes	yes
809C	0	+100	10	50	150	350	1000	±10	—	±10	10	no	no	yes	yes
810B(Dual)	−55	+125	10	100	150	100	500	±10	—	±10	10	no	no	yes	yes
810C(Dual)	0	+100	10	50	150	350	1000	±10	—	±10	10	no	no	yes	yes