

Amplifiers for Video Distribution Systems

October 2007

Part Number				-3 dB BW (MHz)	Slew Rate (V/ μ s)	0.1 dB Flatness 2 V p-p (MHz)	Gain	Rail-to-Rail Output	Disable	Supply Voltage (V)		I_s /Amp Typ (mA)	Features	SOT-23 SC70	MSOP	SOIC	LFCSP	TSSOP	Price @ 1k ¹ OEM (\$U.S.)	
Single	Dual	Triple	Quad							Min	Max									
Differential Output Amplifiers with Single-Ended or Differential Input																				
AD8131				400	2000	85	2			2.8	11	11.5			•	•			1.80	
AD8132				350	1200	30	R_f/R_G			2.8	11	10.7			•	•			1.65	
		AD8133		450	1600	55	2		•	4.5	11	8.7					•		2.19	
		AD8134		450	1600	55	2		•	4.5	11	8.7	Sync-on-CM				•		2.19	
		AD8146		700 ²	3000	200	2		•	4.5	11	16.7					•		2.79	
		AD8147		600 ²	3000	200	2		•	4.5	11	18.5	Sync-on-CM				•		2.89	
		AD8148		700 ²	3000	235	4		•	4.5	11	17.3	Sync-on-CM				•		3.09	
Differential Input Amplifiers with Single-Ended Output																				
AD8129				200	1060	20	R_f/R_G		•	4.5	25.2	11	Stable G \geq 10, low noise		•	•			1.55	
AD8130				270	1090	30	R_f/R_G		•	4.5	25.2	11			•	•			1.55	
		AD8143		260	1000	60	R_f/R_G		•	4.5	25.2	11	Sync-on-CM				•		2.55	
		AD8145		500	2000	75	1 or 2		•	4.5	11	16	Sync-on-CM				•		2.99	
Cable Equalizers/Receivers																				
Part Number				Peak Gain			Gain	Rail-to-Rail Output	Disable	Supply Voltage (V)		I_s /Amp Typ (mA)	Features	SOT-23 SC70	MSOP	SOIC	LFCSP	TSSOP	Price @ 1k ¹ OEM (\$U.S.)	
Single	Dual	Triple	Quad							Min	Max									
ADA8128																				
		AD8123		55 @ 100 MHz			Volt adj			9	11	44	Up to 300 m of Cat-5/coax					•	7.79	
				20 @ 120 MHz			Volt adj			9	11	24	Up to 100 m of Cat-5/coax					•	2.59	
Differential Input Amplifiers with Single-Ended Output																				
Part Number				-3 dB BW (MHz)	Slew Rate (V/ μ s)	0.1 dB Flatness 2 V p-p (MHz)	Gain	Rail-to-Rail Output	Disable	Supply Voltage (V)		I_s /Amp Typ (mA)	Features	SOT-23 SC70	MSOP	SOIC	LFCSP	TSSOP	Price @ 1k ¹ OEM (\$U.S.)	
Single	Dual	Triple	Quad							Min	Max									
AD8000				1500	4100	190	R_f/R_G		•	4.5	11	13.5					•	•	1.68	
		AD8003		1650	3800	190	R_f/R_G		•	4.5	11	9.5					•	•	2.89	
AD8010				230	800	60	R_f/R_G			4.5	12	15.5	Drives up to 8 video loads					•	3.22	
ADA4860-1				800	790	125	R_f/R_G		•	4.5	12	6		•					0.55	
		ADA4862-3		300	750	65	1 or 2		•	4.5	12	5.3						•	0.95	
		ADA4861-3		730	625	100	R_f/R_G		•	4.5	12	6						•	0.95	
ADA4851-1	ADA4851-2		ADA4851-4	130	200	11	R_f/R_G	•	•	2.7	12	2.5		•	•			•	0.55/0.69/1.09	
AD8061	AD8062			300	650	30	R_f/R_G	•	•	2.7	8	6.8		•	•	•			0.85/1.60	
Video Filters (Sixth-Order)																				
Part Number				Cutoff Frequency			Group Delay (ns)	Gain	Rail-to-Rail Output	Disable	Supply Voltage (V)		I_s Typ (mA)	Features	SOT-23 SC70	MSOP	SOIC	LFCSP	QSOP	Price @ 1k ¹ OEM (\$U.S.)
Single	Triple	Hex	9 MHz	18 MHz	36 MHz	Min					Max									
ADA4430-1						—	2	•	•	2.5	6.0	1.85	SD low power	•					0.49	
		ADA4410-6		•	•	•	8	2 or 4	•	•	4.5	12	81	3 SD/HD filters, 3 SD, 2:1 mux				•	2.49	
		ADA4411-3		•	•	•	7	2 or 4	•	•	4.5	12	53	3 SD/HD filters, 2:1 mux					•	1.89
		ADA4412-3		•	•	•	7	2	•	•	4.5	12	53	3 SD/HD filters					•	1.59
		ADA4417-3				•	5	2	•	•	3.3	5	19.5	3 HD filters		•				0.79

¹USD 1000s, recommended resale, FOB U.S.A.

²2 V p-p.

For more information on ADI amplifiers, visit www.analog.com/amps.

