

Differential Amplifiers

Type	Description	Features	Freq. Range DC to MHz	A (typ.) dB	BW (3dB Point) (typ.) kHz	I/F, NF (typ.) dB	AGC Range (typ.) dB	Pkg. No. of Pins*
CA3000	DC Amplifier	<ul style="list-style-type: none"> Balanced differential-amplifier configuration with controlled constant-current source RF, if, and video frequency capability Balanced agc capability Operation from dc to 500MHz CA3028B is controlled for input offset voltage, current, and input bias current, and is intended for "balance" requirements Push-pull inputs and outputs CA3005 and CA3006 are identical except for input offset voltage CA3028 and CA3053 are identical except for 100-MHz noise specification CA3051 and CA3050 are identical except for package CA3054 and CA3026 are identical except for package and substrate connection 	30	37	650	-	90	10T
CA3001	Video & Wideband Amplifier		29	19	29■	5	60	12T
CA3002	IF Amplifier		20	24	11■	4#	-	10T
CA3026	Dual Independent		120	32□	550†	3.25	75	12T
CA3028A	Differential /Cascode Amplifiers		120	40□	-	7.2#	62	8C, S, T
CA3028B			120	40	8	7.2#	62	
CA3040	Amplifier		55	37	5.5	7.5	-	12T
CA3049	Dual High Frequency		500	22	1.35▲	53	75	12T
CA3050	Dual Differential Amplifiers		20	-	4.3°/600†	-	60	14, D, E
CA3051			20	-	4.3°/600†	-	60	
CA3053	Differential /Cascode Amplifier		120	40	Recommended for IF Amplifier Applications			8E, S, T
CA3054	Dual Independent		120	32	550†	3.25	75	14E
CA3102	Dual High-Frequency		500	22	1.35▲	1.5	7.5	14E

°Min ■RMS ▲GHz #NF °Transistor Array †f_T (MHz) □G_p Min. at 100MHz Cascode. 16dB. Diff Ampl. 14dB

V_{OUT} (p-p V): CA3000, 6.4; CA3001, 5; CA3002, 5.5; CA3028B, 11.5; CA3040, 05. (RMS). T_A Range: -55 to +125°C except for types CA3051, CA3054 (-40 to +85°C)

* See interpretation guide and packaging section

Sample-and-Hold Amplifiers

Type	Sample/Hold Type	Temperature Range	Package*	Acquisition Time (to 0.01%) Typ, +25°C	Charge Transfer Typ, +25°C	Aperture Time Typ, +25°C	Gain Bandwidth Product Typ, +25°C
HA1-2420-2 HA1-2425-5 HA1-2420/883 HA3-2425-5 HA4-2420-8 HA4P2425-5	Low droop rate	-55°C to +125°C 0°C to +75°C -55°C to +125°C 0°C to +75°C -55°C to +125°C 0°C to +75°C	14-pin cerdip 14-pin cerdip 14-pin cerdip 14-pin epoxy 20-pin LCC ceramic 20-pin PLCC epoxy	3.2µs (C _H = 1,000pF)	10pC	30ns	2.5MHz
HA1-5320-2 HA1-5320-5 HA1-5320-8 HA4-5320-8	High speed Low charge transfer Precision Complete-includes hold capacitor	-55°C to +125°C 0°C to +75°C -55°C to +125°C -55°C to +125°C	14-pin cerdip 14-pin cerdip 14-pin cerdip 20-pin LCC ceramic	1µs (C _H = Internal)	0.1pC	25ns	2.0MHz C _H = 100pF
HA1-5330-5 HA1-5330-4 HA1-5330-2 HA1-5330/883 HA4-5330/883	Very high speed Precision monolithic Complete-includes hold capacitor	0°C to +75°C -25°C to +85°C -55°C to +125°C -55°C to +125°C -55°C to +125°C	14-pin cerdip 14-pin cerdip 14-pin cerdip 14-pin cerdip 20-pin LCC ceramic	500ns (C _H = Internal)	0.05pC	20ns	4.5MHz

* See interpretation guide and packaging section