

INSTRUMENTATION AMPLIFIER SELECTION GUIDE



GENERIC PART NUMBER	SUPPLY CURRENT (mA) Max	OPERATING VOLTAGE RANGE (V)	GAIN SETTING METHOD	CMRR @ 60 Hz, 1k SOURCE IMBALANCE, G = 10 (dB) Min	BW @ G = 10 (kHz) Typ	SETTLING TIME to 0.01%, G = 10 (µs) Typ	INPUT VOLTAGE OFFSET (µV) Max	INPUT VOLTAGE OFFSET TC (µV/°C) Max	INPUT BIAS CURRENT (nA) Max	OUTPUT OFFSET VOLTAGE (mV) Max	INPUT VOLTAGE NOISE DENSITY (f = 1 kHz) (nV/√Hz) Max	GAIN RANGE Min to Max	GAIN ERROR @ G = 10 (%) Max	PRICE @ 1k \$US OEM	COMMENTS
In Amps For New Designs															
<i>Low Cost</i>															
AD622	1.3	±2.3 to ±18	Resistor	86	800	10	125	1	5	1.5	12 (typ)	1 to 1000	0.5	\$2.25	
AD623	0.575	±2.5 to ±6 Dual, +3 to +12 Single	Resistor	90	100	20	200	2	25	1	35 (typ)	1 to 1000	0.35	\$1.55	Lowest Cost In Amp µSOIC Packaging
<i>Single Supply</i>															
AD623	0.575	±2.5 to ±6 Dual, +3 to +12 Single	Resistor	90	100	20	200	2	25	1	35 (typ)	1 to 1000	0.35	\$1.55	Lowest Cost In Amp µSOIC Packaging
AD626	2 0.23	±2.5 to ±6 Dual, +2.4 to +10 Single	Pin	67 (f = 100 Hz)	100	24	500	1 (typ)	ns	ns	250 (typ)	10, 100	0.5 1	\$2.85	Excellent for High Side Current Sensing
AD627	0.085	±1.2 to ±18 Dual, +2.2 to +36 Single	Resistor	77	80 (G = 5)	135 (G = 5)	200	3	10	1	38	5 to 1000	0.35	\$2.30	Micropower Wide Supply Voltage Range
<i>High Accuracy</i>															
AD620	1.3	±2.3 to ±18	Resistor	93	800	15	125	1	2	1	13	1 to 10000	0.3	\$3.27	
AD621	1.3	±2.3 to ±18	Pin	93	800	12	250 (Total RTI)	2.5 (Total RTI)	2	na	17 (Total RTI)	10, 100	0.15	\$3.82	
<i>Wide Bandwidth</i>															
AMP03	3.5	±4.5 to ±19	na	80	3000	1 (typ)	ns	ns	ns	ns	750 (Total RTO)	1	0.008 (G = 1)	\$2.53	
Vintage In Amps															
<i>High Accuracy</i>															
AD524	5	±6 to ±18	Pin	85	400	15	250	2	50	5	7	1 to 1000	0.25	\$6.72	
AMP01	4.8	±4.5 to ±18	Resistor	95	100	13	100	1	6	6	59	0.1 to 10000	0.8	\$4.83	
<i>Low Noise</i>															
AD624	5	±6 to ±18	Pin	90	1000 (G = 1)	15	200	2	±50	5	4	1 to 1000	±0.05 (G = 1)	\$11.78	
AD625	5	±5 to ±18	Resistor	90	400	15	200	2	±50	5	4	1 to 10000	0.05	\$6.58	
<i>Software Programmable</i>															
AD526	14	±4.5 to ±16.5	Software	ns	350 (G = 16)	7 (G = 16)	700	10	0.15	ns	30	1, 2, 4, 8, 16	0.07 (G = 16)	\$8.17	

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

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