

Op Amp Selection Guide

High Speed Op Amps

PART NUMBER	ELECTRICAL CHARACTERISTICS								IMPORTANT FEATURES
	MIN SLEW RATE (V/ μ s)	TYP SETTLE TIME TO 0.1% (ns)	TYPICAL GAIN BANDWIDTH PRODUCT (MHz)	MIN A_{VOL} (V/mV)	MAX V_{OS} (mV)	I_B MAX (μ A)	PACKAGES AVAILABLE	MIL/IND TEMP	
SINGLE									
LM118	50		15	50	4	0.25	H, J8	M	Industry Standard
LT118A	50		15	100	1	0.25	H, J8	M	Improvement Over LM118
LT318A	50		15	100	1	0.25	H, J8, N8		Commercial Temp Version of LT118A
LT1028AC	11		75	7000	0.04	0.09	H, J8, N8	M	Ultra-Low Noise, Precision, Low Drift
LT1028C	11		75	5000	0.08	0.18	H, J8, N8, S8	M	Ultra-Low Noise, Precision, Low Drift
LT1037AC	11		60	7000	0.025	0.035	H, J8, N8	M	$A_V = 5$, Low Noise, Precision
LT1037C	11		60	5000	0.06	0.055	H, J8, N8, S8	M	$A_V = 5$, Low Noise, Precision
LT1115C	10		70	2000	0.2	0.38	N8, SW16		Ultra-Low Noise, Low Distortion, Audio
LT1122AC	60	340* 540**	14	180	0.6	75pA	J8, N8	M	JFET Input. Faster and Better DC Specs Than OP-42. A and C Have Grades 100% Tested Settling Time
LT1122BC	60	350*	14	180	0.6	75pA	J8, N8	M	
LT1122CC	50	350* 590**	13	150	0.9	100pA	J8, N8, S8	M	
LT1122DC	50	360*	13	150	0.9	100pA	J8, N8, S8	M	
LT1128AC	5		20	7000	0.04	0.09	N8		Ultra-Low Noise, Precision, Unity-Gain Stable
LT1128C	4.5		20	5000	0.08	0.18	N8, S8		Ultra-Low Noise, Precision, Unity-Gain Stable
LT1187C	130	100***	50 ($A_V = 2$)		10	2	N8, S8		Low Power Video Difference Amplifier
LT1189C	175	1000***	35 ($A_V = 10$)		3	2	N8, S8		
LT1190C	450†	100	50	3.5	10	2.5	J8, N8, S8	M	$\pm 5V$ Supply Color Video Op Amps
LT1191C	450†	100	90	6	5	2.5	J8, N8, S8	M	
LT1192C	450†	100	400 ($A_V \geq 5$)	16	2.5	2.5	J8, N8, S8	M	
LT1193C	450†	100	70		12	3.5	J8, N8, S8	M	Color Video Differential Amplifier
LT1194C	450†	100	40		6	3.5	J8, N8, S8	M	
LT1195C	140	220***	50	0.5	8	2	J8, N8, S8	M	Low Power, High Speed
LT1200C	30	430	11.0	4	1	1	N8, S8		Low Supply Current Op Amp
LT1206C	600		50	0.6	15	5	N8, R, Y, S8		250mA Current Feedback Amplifier
LT1217C	100	280	10.0	3.2	3	0.5	N8, S8		Low Power Current Feedback Amplifier
LT1220C	200	75	45	20	1	0.3	H, J8, N8, S8		Ultra High Speed, Good DC Specs. C-Load Driving
LT1221C	200	65	150 ($A_V \geq 4$)	50	0.6	0.3	H, J8, N8, S8		
LT1222C	200	75	500 ($A_V \geq 10$)	100	0.3	0.3	H, J8, N8, S8	M	Current Feedback Amplifier with Good DC Specs
LT1223C	800	75	100	3.2	3	3	J8, N8, S8	M	
LT1224C	250	90	45	3.3	2	8	J8, N8, S8	M	
LT1225C	250	70	150 ($A_V \geq 5$)	12.5	1	8	J8, N8, S8	M	
LT1226C	250	75	1000 ($A_V \geq 25$)	50	1	8	J8, N8, S8	M	High Speed, DC Precision, Stable While Driving Unlimited Capacitive Load (C-Load)
LT1227C	500	50	140.0	0.6	10	3	J8, N8, S8	M	
LT1228C	300	45	100	0.6	10	3	J8, N8, S8	M	Current Feedback Amplifier
LT1252C	250		100	0.56	15	15	N8, S8		Electronic DC Gain Control
LT1354C	200	230	12	12	0.8	0.3	N8, S8		Low Cost Video Amplifier
LT1357C	300	115	25	20	0.6	0.5	N8, S8		1mA, 12MHz, 400V/ μ s C-Load
LT1360C	600	60	50	4.5	1	1	N8, S8		2mA, 25MHz, 600V/ μ s C-Load
LT1363C	750	50	70	4.5	1.5	2	N8, S8		4mA, 50MHz, 800V/ μ s C-Load
DUAL									
LT1124AC	3		12.5	5000	0.07	0.025	J8, N8	M	Dual, Low Noise, Precision
LT1124C	2.7		12.5	3000	0.1	0.03	J8, N8, S8	M	Dual, Low Noise, Precision
LT1126AC	8		45	5000	0.07	0.02	J8, N8	M	$A_V = 10$, Dual, Low Noise, Precision
LT1126C	8		45	3000	0.1	0.03	J8, N8, S8	M	$A_V = 10$, Dual, Low Noise, Precision
LT1201C	30	330	12	4	2	1	N8, S8		1mA, 12MHz, 50V/ μ s Dual C-Load
LT1208C	250	90	45	3.3	3	8	N8, S8		45MHz, 450V/ μ s Dual C-Load

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†Typical value *10V step, to 1mV at sum node. **Maximum value, 10V step, to 1mV at sum node. ***3V Step

NOTE: See page 4-3 for DESC cross reference numbers