

# Op Amp Selection Guide

## High Speed Op Amps

PART NUMBER	ELECTRICAL CHARACTERISTICS								IMPORTANT FEATURES
	MIN SLEW RATE (V/ $\mu$ 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 ( $\mu$ A)	PACKAGES AVAILABLE	MIL/IND TEMP	
<b>SINGLE</b>									
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	
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	Electronic DC Gain Control
LT1252C	250		100	0.56	15	15	N8, S8		Low Cost Video Amplifier
LT1354C	200	230	12	12	0.8	0.3	N8, S8		1mA, 12MHz, 400V/ $\mu$ s C-Load
LT1357C	300	115	25	20	0.6	0.5	N8, S8		2mA, 25MHz, 600V/ $\mu$ s C-Load
LT1360C	600	60	50	4.5	1	1	N8, S8		4mA, 50MHz, 800V/ $\mu$ s C-Load
LT1363C	750	50	70	4.5	1.5	2	N8, S8		6mA, 70MHz, 1000V/ $\mu$ s C-Load
<b>DUAL</b>									
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/ $\mu$ s Dual C-Load
LT1208C	250	90	45	3.3	3	8	N8, S8		45MHz, 450V/ $\mu$ 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