

## 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)	MAX $I_B$ ( $\mu$ 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 ( $A_V \geq 2$ )	7000	0.04	0.09	H, J8, N8	M	Ultralow Noise, Precision, Low Drift	
LT1028C	11		75 ( $A_V \geq 2$ )	5000	0.08	0.18	H, J8, N8, S8	M	Ultralow Noise, Precision, Low Drift	
LT1037AC	11		60 ( $A_V \geq 5$ )	7000	0.025	0.035	H, J8, N8	M	$A_V = 5$ , Low Noise, Precision	
LT1037C	11		60 ( $A_V \geq 5$ )	5000	0.06	0.055	H, J8, N8, S8	M	$A_V = 5$ , Low Noise, Precision	
LT1115C	10		70 ( $A_V \geq 2$ )	2000	0.2	0.38	N8, SOL16		Ultralow 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 Grades 100% Tested for 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		Ultralow Noise, Precision, Unity-Gain Stable	
LT1128C	4.5		20	5000	0.08	0.18	N8, S8		Ultralow Noise, Precision, Unity-Gain Stable	
LT1187C	100	100***	50 ( $A_V = 2$ )		10	2	J8, N8, S8	M	Low Power Video Difference Amplifier	
LT1189C	150	1000***	35 ( $A_V = 10$ )		3	2	J8, N8, S8	M		
LT1190C	325	140***	50	2.5	10	2.5	J8, N8, S8	M	$\pm 5V$ Supply Color Video Op Amps	
LT1191C	325	110***	90	6	5	2.5	J8, N8, S8	M		
LT1192C	325	90***	350 ( $A_V \geq 5$ )	16	2.5	2.5	J8, N8, S8	M		
LT1193C	350	180***	80 ( $A_V = 2$ )		12	3.5	J8, N8, S8	M	Color Video Differential Amplifier	
LT1194C	350	200***	350 ( $A_V = 10$ )		6	3.5	J8, N8, S8	M		
LT1195C	125	220***	50	0.5	8	2	J8, N8, S8	M	Low Power, High Speed	
LT1203C	180	30†††	150		30	5	N8, S8		150MHz 2:1 Video Multiplexer	
LT1204C	500	70	75	0.7	14	8/50	N16, S16		4-Input Video MUX with 75MHz CFA	
LT1206C	400		60	0.6	10	5/60††	N8, R, T7, S8		250mA Current Feedback Amplifier	
LT1217C	100	280	10.0	32	3	0.5/0.5††	N8, S8		Low Power Current Feedback Amplifier	
LT1220C	200	75	45	20	1	0.3	H, J8, N8, S8	M	Ultrahigh Speed, Good DC Specs, C-Load Driving	
LT1221C	200	65	150 ( $A_V \geq 4$ )	50	0.6	0.3	H, J8, N8, S8	M		
LT1222C	150	75	500 ( $A_V \geq 10$ )	100	0.3	0.3	H, J8, N8, S8	M		
LT1223C	800	75	100	3.2	3	3/3††	J8, N8, S8	M	Current Feedback Amplifier with Good DC Specs	
LT1224C	250	90	45	3.3	2	8	N8, S8		High Speed, Stable While Driving Unlimited Capacitive Load (C-Load)	
LT1225C	250	90	150 ( $A_V \geq 5$ )	12.5	1	8	N8, S8			
LT1226C	250	100	1000 ( $A_V \geq 25$ )	50	1	8	N8, S8			
LT1227C	500	50	140	0.6	10	3/60††	J8, N8, S8	M	Current Feedback Amplifier	
LT1228C	300	45	100	0.6	10	3/65††	J8, N8, S8	M	Electronic DC Gain Control	
LT1251C	150	65	40	14.1	5	2.5/30	N14, S14		40MHz Video Fader	
LT1252C	250		100	0.56	15	15/100††	N8, S8		Low Cost Video Amplifier	
LT1256C	150	65	40	14.1	5	2.5/30	N14, S14		40MHz DC Gain Controlled 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 ( $A_V \geq 10$ )	5000	0.07	0.02	J8, N8	M	$A_V = 10$ , Dual, Low Noise, Precision	
LT1126C	8		45 ( $A_V \geq 10$ )	3000	0.1	0.03	J8, N8, S8	M	$A_V = 10$ , Dual, Low Noise, Precision	

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

††Current feedback amplifier.  $I_B$  is noninverting input/inverting input

†††1% settling