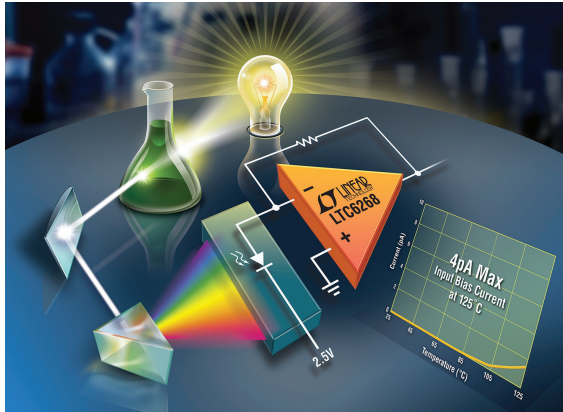


High Performance Op Amps



Linear Technology's high performance amplifiers help solve your toughest signal conditioning challenges.

LTC6268—Outstanding performance for transimpedance amplifier (TIA) and buffer applications. Bias current is 3fA at 25°C, and input capacitance is 450fF.

LT6015—Over-the-Top® input op amp combines ruggedness with precision. Input offset voltage is less than 100μV, and the inputs can be up to 76V above the negative rail, independent of supply voltage.

LT2057—Low noise zero drift amplifier operates with supply up to 60V.

LT6020—Combines low power, DC precision and consistent fast settling for low power multiplexed applications.

For a list of selected amplifiers suitable for a wide array of applications, see the tables below, or visit www.linear.com/opamps for our complete portfolio.

Selected High Speed Op Amps, GBW Product > 10MHz

See www.linear.com/opamps for a complete list

Single Part Number	Dual Part Number	Quad Part Number	V _{OS} Max 25°C (μV)	TCV _{OS} Max 25°C (μV/°C)	I _B Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/μs)	e _n Typ 25°C (nV/√Hz)	I _{OUT} Min 25°C (mA)	I _S Max 25°C (nA)	V _S Min (V)	V _S Max (V)	Rail-to-Rail I/O
LTC6268/LTC6268-10	LTC6269/LTC6269-10		700	4 Typ	0.00002	500/4000	260/1000	4.3/4.0	60/50	18	3.1	5.25	Out
LT6230-10			500	3	10000	1450	320	1.1	30	3.75	3	12.6	Out
LTC6360			250	1.3 Typ	30000	1000	95	2.3	18	8	4.75	5.25	Out
LT1226			1000	6 Typ	8000	1000	400	2.6	24	9	5	36	
LTC6252	LTC6253/LTC6253-7	LTC6254	350	3.5 Typ	650/750	720/2000	280/500	2.75	40	3.5	2.5	5.25	Yes
	LT6411		10000			650	3300	8	50	11	4.5	12.6	
LT1818	LT1819		1500	15	8000	400	2500	6	40	10	3.5	12.6	
LT1395	LT1396	LT1397	12000	15 Typ		400	800	4.5	80	6.5	3	12.6	
LT1806	LT1807		550	5	4000	325	125	3.5	35	13	2.5	12.6	Yes
LT1815	LT1816	LT1817	1500	15	8000	220	1500	6	50	7.8	2.5	12.6	
LT6236	LT6237	LT6238	500	1.8	10000	215	70	1.1	30	3.9	3	12.6	Out
	LT6300	LT6301	5000	10 Typ	4000	200	600	8	500	13.5	8	27	
LT1722	LT1723	LT1724	400	7	300	200	70	3.8	35	4.5	4.6	12.6	
	LT1468-2	LT1469-2	75	2	40	200	30	5	15	5	9	36	
LTC6246	LTC6247	LTC6248	500	2 Typ	350	180	90	4.2	35	1	2.5	5.25	Yes
LT6200	LT6201		1000	24	40000	165	50	0.95	60	23	2.5	12.6	Yes
LT1809	LT1810		2500	25	8000	160	300	16	45	17	2.5	12.6	Yes
LT1812	LT1813	LT1814	1500	15	4000	100	750	8	40	3.6	2.5	12.6	
LT6205	LT6206	LT6207	4500	18	30000	100	600	9	25	5.6	3	12.6	Out
LT6202	LT6203	LT6204	500	24	7000	100	25	1.9	30	3.5	2.50	12.6	Yes
	LT1468	LT1469	75	2	40	90	22	5	15	5	9	36	
LT1803	LT1804	LT1805	2000	35	750	80	100	21	20	3	2.3	12.6	Yes
LT1800	LT1801	LT1802	350	5	250	80	25	8.5	20	2	2.3	12.6	Yes
LT6552			20000	12.5 Typ	50000	75	600	0.7	35	13.5	3	12.6	Out
LT1028			40	0.8	90	75	15	0.85	18.3	9.5	8	44	
LT1363	LT1364	LT1365	1500	13	2000	70	1000	9	50	7.5	3	36	
LT1115			200	0.5 Typ	380	70	15	0.9	18.3	11.5	8	44	
LT1206			10000	20 Typ		66	900	3.6	250	30	10	36	
LT1210			15000	10 Typ	60000	66	900	3	1100	50	8	36	
LT6220	LT6221	LT6222	350	5	150	60	20	10	20	1	2.2	12.6	Yes
LT6233	LT6234	LT6235	350	3	3000	60	17	1.9	40	1.25	3	12.6	Out
LT1037			25	0.6	35	60	15	2.5	18.3	4.3	8	44	
LT1360	LT1361	LT1362	1000	12	1000	50	800	9	26	4.8	3	36	
	LTC6244		100	2.5	0.075	50	35	8	25	7.4	2.8	7	Out
LT1010			150000		250000	30	200	20	150	9	4.5	44	
	LT1630	LT1631	525	5.5	1000	30	9.2	6	20	4.4	2.6	36	Yes
	LT1213	LT1214	150	1.5	160	28	8.5	10	30	3.8	2.5	36	SS
LT1357	LT1358	LT1359	600	8	500	25	600	8	24	2.5	5	36	
LTC6090/LTC6090-5	LTC6091		1000	5	0.05	12/24	21/37	11	50	3.9	9.5	140	Out
	LT1678	LT1679	100	3	20	20	6	3.9	15	3.4	3	36	Yes
LTC6240	LTC6241	LTC6242	125	2.5	0.075	18	10	7	15	2.2	2.8	6	Out
	LTC6087	LTC6088	750	5	0.04	14	7.2	12	1	1.2	2.7	5.5	Yes
	LT1211	LT1212	150	1.5	100	13	7	12	20	1.8	2.5	36	SS
	LT1124	LT1125	70	1	20	12.5	4.5	2.7	6.25	2.75	8	44	
LT1354	LT1355	LT1356	800	8	300	12	400	10	25	1.25	5	36	
	LT1498	LT1499	475	2.5	650	10.5	4.5	12	12.5	2.2	2.2	36	Yes

*Some parameters vary between single/dual/quad versions. For a complete list of products and full specifications visit www.linear.com
 OTT = Over-The-Top—This feature allows full functionality when the input voltage exceeds the supply voltage. See data sheet for details.
 SS = Single Supply—The input common mode voltage range includes ground.

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Selected Precision Operational Amplifiers, $V_{OS} \leq 1mV$

See www.linear.com/opamps for a complete list

Single Part Number	Dual Part Number	Quad Part Number	V_{OS} Max 25°C (μV)	TCV_{OS} Max 25°C (μV/°C)	I_B Max 25°C (nA)	GBW Typ 25°C (MHz)	Slew Rate Typ 25°C (V/μs)	e_n Typ 25°C (nV/√Hz)	I_{OUT} Min 25°C (mA)	I_S Max 25°C (mA)	V_S Min (V)	V_S Max (V)	Rail-to-Rail I/O
LTC2050	LTC2051	LTC2052	3	0.03	0.075	3	2		2.4	1.2	2.7	7	Out
LTC2054	LTC2055		3	0.03	0.15	0.5	0.5		1	0.15	2.7	7	Out
LTC2057			4	0.015	0.2	1.5	0.45	11	17	1.21	4.75	36	Out
LTC1052			5	0.05	0.03	1.2	4	30	0.5	2	4.75	18	Out
LTC1050	LTC1051	LTC1053	5	0.05	0.03	2.5	4	90		1.5	4.75	18	Out
LTC1150	LTC1151		10	0.05	0.1	2.5	3		1.35	1.5	4.75	32	SS
LTC1049			10	0.1	0.05	0.8	0.8	80	0.5	0.3	4.75	18	Out
LTC1152			10	0.1	0.1	0.7	0.5	130	35 Typ	3	3	14	Yes
LT1012			25	0.6	0.1	1	0.2	14	1.3	0.5	2.4	40	
LT1007			25	0.6	0.1	8	2.5	2.5	18	4	4	44	
LT1001	LT1002		25	0.6	2	0.8	0.25	9.6	12	2.5	6	44	
LT1037			25	0.6	35	60	15	2.5	18.3	4.3	8	44	
	LTC6078	LTC6079	25	0.7	0.001	0.75	0.05	18	5	0.072	2.7	6	Yes
	LT6023		30	2.9	3	0.04	1.4	132	3	0.02	3	30	Out
	LT6020		30	0.5	3	0.4	5	46	5.5	0.1	3	30	Out
LT1028			40	0.8	90	75	15	0.85	18.3	9.5	8	44	
LT6015	LT6016	LT6017	50	0.75 Typ	5	3.2	0.75	18	25	0.345	3	50	OTT
	LT1881	LT1882	50	0.8	0.2	1	0.35	14	5	0.9	2.4	40	Out
	LT1884	LT1885	50	0.8	0.4	2	0.9	9.5	15	0.9	2.4	40	Out
LT1097			50	1.2	0.25	0.7	0.2	14	5.75	0.56	2	40	
LT1006			50	1.3	15	0.6	0.4	22	6.5	0.52	4	44	SS
LT6013	LT6014		60	0.8	0.25	1.6	0.2	9.5	8	0.165	2.7	40	Out
LT6010	LT6011	LT6012	60	0.8	0.3	0.33	0.09	14	1	0.15	2.7	40	Out
LT1677			60	1.5	20	7.2	2.5	3.2	25	3.5	2.5	44	Yes
	LT1112	LT1114	60	1.3	0.25	0.75	0.3	14	5.5	0.4	2	40	
	LTC6081	LTC6082	70	0.8	0.001	3.6	1	13	5	0.425	2.7	5.5	Yes
	LT1124	LT1125	70	1	20	12.5	4.5	2.7	6.25	2.75	8	44	
	LT2178	LT2179	70	1.8	5	0.06	0.025	49	1.6	0.018	2.2	44	SS
LT1077	LT2078	LT2079	70	1.8	8	0.2	0.07	28	5.5	0.05	2.3	44	SS
	LT1468/ LT1468-2	LT1469/ LT1469-2	75	2	40	90/200	22/30	5	15	5	9	36	
	LTC6244		100	2.5	0.075	50	35	8	25	7.4	2.8	7	Out
	LT1678	LT1679	100	3	20	20	6	3.9	15	3.4	3	36	Yes
LTC6240	LTC6241	LTC6242	125	2.5	0.075	18	10	7	15	2.2	2.8	6	Out
LT1880			150	1.2	0.9	1.1	0.55	13	1	1.9	2.4	40	Out
	LT1211	LT1212	150	1.5	100	13	7	12	20	1.8	2.5	36	SS
	LT1213	LT1214	150	1.5	160	28	8.5	10	30	3.8	2.5	36	SS
	LT1013	LT1014	150	2	20	0.8	0.4	22	6.5	0.5	4	44	SS
	LT1492	LT1493	180	3	100	4.5	1.8	16.5	20	0.55	2.1	36	SS
LTC6360			250	1.3 Typ	30000	1000	95	2.3	18	8	4.75	5.25	Out
LT1637	LT1638	LT1639	350	3	50	1	0.35	27	15	0.25	1.8	44	Yes, OTT
LT6233	LT6234	LT6235	350	3	3000	60	17	1.9	40	1.25	3	12.6	Out
LT6220	LT6221	LT6222	350	5	150	60	20	10	20	1	2.2	12.6	Yes
LT1800	LT1801	LT1802	350	5	250	80	25	8.5	20	2	2.3	12.6	Yes
LTC6252	LTC6253/ LTC6253-7	LTC6254	350	3.5 Typ	650/750	720/2000	280/500	2.75	40	3.5	2.5	5.25	Yes
LT1494	LT1495	LT1496	375	2	1	0.0027	0.001	185	0.7	0.0015	2.1	36	Yes, OTT
LT1722	LT1723	LT1724	400	7	300	200	70	3.8	35	4.5	4.6	12.6	
	LT1057	LT1058	450	10	0.05	5	14	13		2.5	8	40	
	LT1498	LT1499	475	2.5	650	10.5	4.5	12	12.5	2.2	2.2	36	Yes
	LT1366	LT1367	475	6	35	0.4	0.13	29	30	0.52	2	36	Yes
LTC6255	LTC6256	LTC6257	500	3	60	6.5	1.8	20	10	0.073	1.8	5.25	Yes
LT6236	LT6237	LT6238	500	1.8	10000	215	70	1.1	30	3.9	3	12.6	Out
LT6230-10			500	3	10000	1450	320	1.1	30	3.9	3	12.6	Out
LT1636	LT1490A	LT1491A	500	4	8	0.18	0.06	50	15	0.055	2	44	Yes, OTT
LT6003	LT6004	LT6005	500	5	0.09	0.002	0.0008	325	2	0.001	1.6	16	Yes
LT6202	LT6203	LT6204	500	24	7000	100	25	1.9	30	3.5	2.50	12.6	Yes
LTC6246	LTC6247	LTC6248	500	2 Typ	350	180	90	4.2	35	1	2.5	5.25	Yes
	LT1630	LT1631	525	5.5	1000	30	9.2	6	20	4.4	2.6	36	Yes
LT1806	LT1807		550	5	4000	325	125	3.5	35	13	2.5	12.6	Yes
LT1351	LT1352	LT1353	600	8	50	3	200	14	30	0.33	5	36	
LT1357	LT1358	LT1359	600	8	500	25	600	8	24	2.5	5	36	
LT1970A			600	10	600	3.6	1.6	15	500	13	5	36	
LTC6268/LTC6268-1	LTC6269/LTC6269-10		700	4 Typ	0.00002	500/4000	260/1000	4.3/4.0	60/50	18	3.1	5.25	Out
LT1055			700	12	0.05	4.5	12	15	30 Typ	4	8	40	
	LTC6084	LTC6085	750	5	0.04	1.5	0.5	27	7.7	0.13	2.5	5.5	Yes
	LTC6087	LTC6088	750	5	0.04	14	7.2	12	1	1.2	2.7	5.5	Yes
LT6000	LT6001	LT6002	750	5	5	0.05	0.015	75		0.016	1.8	18	Yes
LT1782			800	5	15	0.2	0.07	50	20	0.055	2.2	18	Yes, OTT
LT1783			800	5	80	1.25	0.42	20	20	0.3	2.2	18	Yes, OTT
LT1354	LT1355	LT1356	800	8	300	12	400	10	25	1.25	5	36	
LT1056			800	12	0.05	5.5	14	15	30 Typ	7	8	40	
LT1793			800	13	0.01	4.2	3.4	6	12	5.2	10	40	
LT1360	LT1361	LT1362	1000	12	1000	50	800	9	26	4.8	3	36	
LT6200	LT6201		1000	24	40000	165	50	0.95	60	23	2.5	12.6	Yes
LTC6090/ LTC6090-5	LTC6091		1000	5	0.05	12 / 24	21 / 37	11	50	3.9	9.5	140	OUT

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SS = Single Supply—The input common mode voltage range includes ground.

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