

# C-Load, Analog Switches and Other Products

## C-Load™ Stable Op Amps C-Load Operational Amplifiers Are Stable with Any Capacitive Load.

PART NUMBER	# OF AMPS	MIN A <sub>v</sub>	MAX V <sub>OS</sub>	MAX I <sub>B</sub>	MIN I <sub>OUT</sub>	BANDWIDTH	SLEW RATE	I <sub>B</sub> /AMP
LT1097	Single	1	60μV	350pA	5.7mA	700kHz	0.2V/μs	380μA
LT1012	Single	1	50μV	150pA	5.7mA	700kHz	0.2V/μs	380μA
LT1112	Dual	1	75μV	230pA	5.7mA	750kHz	0.3V/μs	350μA
LT1114	Quad	1	75μV	230pA	5.7mA	750kHz	0.3V/μs	350μA
LTC1152	Single	1	10μV	100pA	4mA	1MHz	1V/μs	500μA
LT1200	Single	1	1mV	1μA	6mA	11MHz	50V/μs	1mA
LT1201	Dual	1	2mV	1μA	6mA	12MHz	50V/μs	1mA
LT1202	Quad	1	2mV	1μA	6mA	12MHz	50V/μs	1mA
LT1206	Single	1	10mV	5μA	250mA	60MHz	900V/μs	5mA to 22mA
LT1208	Dual	1	3mV	8μA	24mA	45MHz	400V/μs	7mA
LT1209	Quad	1	3mV	8μA	24mA	45MHz	400V/μs	7mA
LT1220	Single	1	1mV	300nA	24mA	45MHz	250V/μs	8mA
LT1221	Single	4	0.6mV	300nA	24mA	150MHz	250V/μs	8mA
LT1222	Single	10	0.3mV	300nA	24mA	500MHz	200V/μs	8mA
LT1224	Single	1	2mV	8μA	20mA	45MHz	400V/μs	7mA
LT1225	Single	5	1mV	8μA	20mA	150MHz	400V/μs	7mA
LT1226	Single	25	1mV	8μA	20mA	1GHz	400V/μs	7mA
LT1354	Single	1	800μV	300nA	30mA	12MHz	400V/μs	1mA
LT1355	Dual	1	800μV	300nA	30mA	12MHz	400V/μs	1mA
LT1356	Quad	1	800μV	300nA	30mA	12MHz	400V/μs	1mA
LT1357	Single	1	600μV	500nA	30mA	25MHz	600V/μs	2mA
LT1358	Dual	1	600μV	500nA	30mA	25MHz	600V/μs	2mA
LT1359	Quad	1	600μV	500nA	30mA	25MHz	600V/μs	2mA
LT1360	Single	1	1mV	1μA	40mA	50MHz	800V/μs	4mA
LT1361	Dual	1	1mV	1μA	40mA	50MHz	800V/μs	4mA
LT1362	Quad	1	1mV	1μA	40mA	50MHz	800V/μs	4mA
LT1363	Single	1	1.5mV	2μA	70mA	70MHz	1000V/μs	6mA
LT1364	Dual	1	1.5mV	2μA	70mA	70MHz	1000V/μs	6mA
LT1365	Quad	1	1.5mV	2μA	70mA	70MHz	1000V/μs	6mA
LT1368	Dual	1	450μV	35nA	30mA	450kHz	0.15V/μs	375μA
LT1369	Quad	1	450μV	35nA	30mA	450kHz	0.15V/μs	375μA
LT1457	Dual	1	800μV	75pA	10mA	1.7MHz	4V/μs	1.8mA

C-Load is a trademark of Linear Technology Corporation

## Analog Switches Family Features

- Micropower: 40μA Max Supply Current
- Single 5V or ±15V Operation
- 8pC Charge Injection
- Low ON Resistance
- Low Leakage
- Guaranteed Break Before Make

PART NUMBER	NUMBER OF CHANNELS	LATCHED INPUTS	MAX ON RESISTANCE	MAX INPUT AND OUTPUT OFF LEAKAGE	MAX SUPPLY CURRENT	MAX I <sub>ON</sub> /I <sub>OFF</sub>	FEATURES
LTC201A	4		125Ω	5nA	40μA	400ns/300ns	Lower ON Resistance, Charge Injection, Supply Current Than DG201A. Single 5V to ±15V Supply Operation
LTC202	4		125Ω	5nA	40μA	400ns/300ns	Lower ON Resistance, Charge Injection, Supply Current Than DG202. Single 5V to ±15V Supply Operation
LTC203	4		125Ω	5nA	40μA	400ns/300ns	Low ON Resistance, Charge Injection, Supply Current
LTC221	4	X	90Ω	5nA	40μA	400ns/300ns	Lower Charge Injection, Supply Current Than DG221
LTC222	4	X	90Ω	5nA	40μA	400ns/300ns	Lower Charge Injection, Supply Current Than DG222

## Other Products

PART NUMBER	DESCRIPTION	PACKAGE OPTIONS	FEATURES
LF198(A)/LF398(A)	Sample-and-Hold Amplifier	H, J8, N8, S	12-Bit Accurate (LF198A), 6μs Acquisition Time, 0.005% Max Gain Error.
LM134/LM334	Adjustable Current Source	H, Z, S8	1μA to 10mA Adjustment Range, Floating Current Source, 0.02%/Volt Regulation, Can Be Used as Temperature Sensor.
LT1025	Thermocouple Cold Junction Compensator	J8, N8	Provides 0°C Cold Junction Compensation of Types E, J, K, R, S, T Thermocouples. Low Supply Current (80μA) and Operates with Single 4V to 25V DC Supply.
LT1088	RMS to DC Converter	D, N	Thermal RMS to DC Conversion Permits 1% Accuracy to 50MHz, 2% to 100MHz and Handles Crest Factor up to 50:1.
LTC1043	Precision Switched-Capacitor Building Block	D, N, S	120dB CMRR, when Used as Instrumentation Front End, Allows Switched-Capacitor Design Techniques at Board Level.
LTK001	Thermocouple Cold Junction Compensator Matched Amplifier	J, N	LT1025 with Matched Amplifier (LTKA00 or LTKA01) Provides Lower Error Specs than Using Worst Case Errors of LT1025 and Standard Precision Op Amp.

Selection Guides