

Monolithic Boost

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Max (V)	Output Current (A) *	Switch Current (A)	Switch Configuration	Frequency	I _Q (I _{SUPPLY})	Shut-down Current	Package	Comments	Price 1K Qty
LT1615-1	1	15	36	0.08 * V _{IN} /V _{OUT}	0.10	Internal	PFM	20μA	<1μA	ThinSOT	Operates with V _{IN} to 1V, -1 has 100mA Current Limit	\$1.65
LT1944-1	1	15	36	0.15 * V_{IN}/V_{OUT}	0.18	Internal, Dual	PFM	20μA	<1μA	MS10	350mA and 150mA Boost Converters in Single Package	\$2.00
LT1615	1.2	15	36	0.25 * V _{IN} /V _{OUT}	0.30	Internal	PFM	20μA	<1μA	ThinSOT	Operates with V _{IN} to 1V, LT1615 has 350mA Current Limit	\$1.65
LT1937	1	10	36	0.25 * V_{IN}/V_{OUT}	0.30	Internal	1.2MHz	1.9mA	<1μA	ThinSOT	84%, Constant-Current/Voltage Ideal for Driving 4 White LEDs	\$1.20
LT1944	1	15	36	0.29 * V_{IN}/V_{OUT}	0.35	Internal, Dual	PFM	20μA	<1μA	MS10	Dual 350mA Boost Converters in Single Package	\$2.00
LT1945	1	15	±36	0.29 * V_{IN}/V_{OUT}	0.35	Internal, Dual	PFM	20μA	<1μA	MS10	Dual 350mA, @ ±34V Boost Converters in Single Package	\$2.06
LT1610	1	8	30	0.37 * V _{IN} /V _{OUT}	0.45	Internal	1.7MHz	30μA	<1μA	MS8, S8	Operates with V _{IN} to 1V, V _{OUT} to 30V	\$1.65
LT1316	1.5	12	30	0.42 * V _{IN} /V _{OUT}	0.50	Internal	PFM	35μA	<3μA	MS8, S8	Programmable Input Current Limit, Low battery Detect	\$2.45
LT1109	1.6	20	50	0.42 * V _{IN} /V _{OUT}	0.50	Internal	120kHz	320μA	<1μA	S8, N8, Z	Logic Controlled Shutdown, Adj or Fixed 5V, 12V	\$2.35
LT1613	1	10	36	0.46 * V _{IN} /V _{OUT}	0.55	Internal	1.4MHz	3 mA	<1μA	ThinSOT	Operates with V _{IN} to 1.1V, V _{OUT} to 34V, Ideal for SEPIC	\$1.60
LT1932	1	10	36	0.46 * V_{IN}/V_{OUT}	0.55	Internal	1.2MHz	1.2mA	<1μA	ThinSOT	Low Noise, 80% Efficiency, Ideal for 4-6 LEDs	\$1.75
LTC3400/B	0.85	5	6	0.50 * V_{IN}/V_{OUT}	0.60	Internal, Sync	1.2MHz	19μA	<1μA	ThinSOT	/B Version disables BurstMode, Logic Controlled ShutDown	\$1.95
LT1307/B	1	12	30	0.50 * V _{IN} /V _{OUT}	0.60	Internal	600kHz	50μA/ 1.1mA	<1μA	MS8, N8, S8	/B Version disables BurstMode, Low-Battery Detector	\$2.05
LT1317/B	1.5	12	30	0.54 * V _{IN} /V _{OUT}	0.65	Internal	600kHz	160μA/ 7mA	<1μA/3μA	MS8, S8	/B Version disables BurstMode, Low-Battery Detector	\$2.25
LTC3401	0.5	5	6	0.83 * V_{IN}/V_{OUT}	1.00	Internal, Sync	3MHz	38μA	<1μA	MS10	Synchronous Rectification, Up to 97% Efficiency	\$2.60
LTC3423	0.5	5	6	0.83 * V_{IN}/V_{OUT}	1.00	Internal, Sync	3MHz	38μA	<1μA	MS10	For Output Voltages of 1.5V to 2.6V, Requires V_{DD} of 2.7V	\$2.60
LT1073	1	30	50	0.83 * V _{IN} /V _{OUT}	1.00	Internal	19kHz	95μA	<1μA	N8, S8	Can use as Step-Up or Step-Down, Adj Current Limit, Low Battery Detect	\$3.00
LT1173	1	30	50	0.83 * V _{IN} /V _{OUT}	1.00	Internal	23kHz	110μA	<1μA	N8, S8	Can use as Step-Up or Step-Down, 5V or 12V or Adj. Output	\$2.30
LT1304	1.5	8	25	0.83 * V _{IN} /V _{OUT}	1.00	Internal	300kHz	120μA	<10μA	S8	Programmable Peak Current Limit, Low Battery Detect	\$2.45
LT1949/-1	1.5	12	30	0.83 * V_{IN}/V_{OUT}	1.00	Internal	600kHz/ 1.1MHz	4.5mA	<25μA	S8, MS8/MS8	Operates with V_{IN} to 1.5V, Low Battery Detect	\$2.25
LT1300/01/03	1.8	10	50	0.83 * V _{IN} /V _{OUT}	1.00	Internal	155kHz	120μA	<10μA	N8,S8	Programmable Peak Current Limit, Programmable 5V or 3.3V Output	\$2.45
LT1107	2	30	50	0.83 * V _{IN} /V _{OUT}	1.00	Internal	63kHz	320μA	<1μA	J8, N8, S8	Programmable Current Limit, Fixed V _{OUT} 5V or 12V or Adj	\$2.25

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LT1930/A	2.6	16	16	0.83 * V _{IN} /V _{OUT}	1.00	Internal	1.2MHz/ 2.2MHz	5.5µA	<1µA	ThinSOT	Pin for Pin Compatible with LT1613, Wide V _{IN} Range	\$1.90
LT1947	2.6	6	36	0.83 * V_{IN}/V_{OUT}	1.00	Internal	3MHz	9.5mA	<1µA	MS10	Triple Output for TFT-LCD Applications Greatly Reduced Conducted/Emitted EMI, (<100µV _{P-P}), Independent Control of Switch Voltage/Current Slew Rates	\$2.50
LT1533	2.7	23	30	0.83 * V _{IN} /V _{OUT}	1.00	Internal	250kHz	12µA	<1µA	S16	Pin: to 75V, Isolated Flyback Regulation	\$4.65
LT1082	3	75	100	0.83 * V _{IN} /V _{OUT}	1.00	Internal	60kHz	4.5mA	<120µA	J8, N8, Q, T	Pin: 3V to 30V, Operates in Nearly All Switching Topologies	\$4.40
LT1072/HV	3	40/60	40/60	1.04 * V _{IN} /V _{OUT}	1.25	Internal	4kHz	6mA	<50µA	T5, N8, J8, S8, S16	Pin: 3V to 60V, Operates in Nearly All Switching Topologies	\$2.35
LT1172/HV	3	40/60	40/60	1.04 * V _{IN} /V _{OUT}	1.25	Internal	100kHz	6mA	<50µA	N8, J8, SW16, T5, Q	Pin: 3V to 30V, Operates in Nearly All Switching Topologies	\$2.35
LT1572	3	30	60	1.04 * V _{IN} /V _{OUT}	1.25	Internal	140kHz	6mA	<50µA	S16	Constant Current/Voltage	\$3.95
LT1618	1.6	18	36	1.25 * V _{IN} /V _{OUT}	1.50	Internal	1.4MHz	1.8mA	<1µA	MS10	Constant Current/Voltage	\$2.70
LT1961	3	25	34	1.25 * V_{IN}/V_{OUT}	1.50	Internal	1.25MHz	0.9mA	<6µA	MS8E	Constant Current/Voltage	\$2.00
LT1946/A	2.45	16	36	1.25 * V_{IN}/V_{OUT}	1.50	Internal	1.2/ 2.7MHz	3.2mA	<1µA	MS8	Integrated Soft-Start, Ideal for TFT-LCD Applications	\$2.50
LT1372/77	2.7	30	30	1.25 * V _{IN} /V _{OUT}	1.50	Internal	500kHz/ 1MHz	4mA	<12µA	N8, S8	Regulates Positive or Negative Outputs	\$3.30
LT1373/HV	2.7	30	35/42	1.25 * V _{IN} /V _{OUT}	1.50	Internal	250kHz	1mA	<12µA	N8, S8	Regulates Positive or Negative Outputs	\$3.50
LT1310	2.75	18	35	1.25 * V_{IN}/V_{OUT}	1.50	Internal, PLL	4.5MHz	12mA	<1µA	MS10E	Low Noise Output, Synchronizable/ Constant Frequency, Thermally Enhanced Package	\$2.85
LTC3402	0.5	5	6	1.67 * V_{IN}/V_{OUT}	2.00	Internal, Sync	3MHz	38µA	<1µA	MS10	Synchronous Rectification, Up to 97% Efficiency	\$3.50
LTC3424	0.5	5	6	1.67 * V_{IN}/V_{OUT}	2.00	Internal, Sync	3MHz	38µA	<1µA	MS10	For Output Voltages of 1.5V to 2.6V, Requires V_{DD} of 2.7V	\$3.50
LT1308A/B	1	10	30	1.67 * V _{IN} /V _{OUT}	2.00	Internal	600kHz	100µA	<5µA	S8	Ideal for Single Cell AA, /B Version disables BurstMode, Low-Battery Detector	\$3.25
LT1302	2	10	25	1.67 * V _{IN} /V _{OUT}	2.00	Internal	400kHz	100µA	<15µA	S8, N8	Logic Controlled Shutdown, Adj or Fixed 5V	\$3.25
LT1534	2.7	23	35	1.67 * V _{IN} /V _{OUT}	2.00	Internal	250kHz	12mA	<12µA	S16	Greatly Reduced Conducted/Emitted EMI, Independent Control of Switch Voltage/Current Slew Rates	\$3.95
LT1071/HV	3	40/60	40/60	2.08 * V _{IN} /V _{OUT}	2.50	Internal	40kHz	6mA	<50µA	T5	Pin: to 60V, Operates in Nearly All Switching Topologies	\$4.60
LT1171/HV	3	40/60	65/75	2.08 * V _{IN} /V _{OUT}	2.50	Internal	100kHz	6mA	<50µA	N8, J8, S8, SW16, T, Q	Pin: to 60V, Operates in Nearly All Switching Topologies	\$4.60
LT1371/HV	2.7	30	35/42	2.50 * V _{IN} /V _{OUT}	3.00	Internal	500kHz	4mA	<12µA	R, T7, SW20	Regulates Positive or Negative Outputs, Synchronizable	\$5.15
LT1269/71	3.5	30	60	3.33 * V _{IN} /V _{OUT}	4.00	Internal	100kHz/60kHz	7mA	<100µA	Q, T, SW20	Pin: 3.5V to 30V, FlyBack has Fully Floating Outputs	\$5.20
LT1070/HV	3	40/60	40/60	4.17 * V _{IN} /V _{OUT}	5.00	Internal	40kHz	6mA	<50µA	T	Pin: to 60V, Operates in Nearly All Switching Topologies	\$4.25
LT1170/HV	3	40/60	40/60	4.17 * V _{IN} /V _{OUT}	5.00	Internal	100kHz	6mA	<50µA	N8, J8, S8, SW16, T, Q	Pin: 3V to 60V, Operates in Nearly All Switching Topologies	\$5.60
LT1370/HV	2.7	30	35/42	5.00 * V _{IN} /V _{OUT}	6.00	Internal	500kHz	4.5mA	<12µA	R, T7	Regulates Positive or Negative Outputs, Synchronizable	\$6.05

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LT1268/B	3	30	60	6.25 * V _{IN} /V _{OUT}	7.50	Internal	150kHz	7mA	<100μA	Q, T	V _{IN} : to 30V, External Synchronization	\$6.25
LT1270/A	3.5	30	60	#VALUE! * V _{IN} /V _{OUT}	8.0/10	Internal	60kHz	7mA	<100μA	T	V _{IN} : to 30V, FlyBack has Fully Floating Outputs	\$5.60

* Output current is calculated the equation in the column, I.e. $06 \times (V_{IN}/V_{OUT}) = \text{estimated } I_{OUT}$. This value is an estimate and can go up or down, depending on external component choices.