

18V/5A Monolithic Buck-Boost



Internal FETs & Sense Resistor Simplify Design

Our LTC3119 brings a new level of performance and integration to our growing family of monolithic Buck-Boost converters. Its internal switches can deliver up to 5A of output current while having fast transient response due to its current mode control and a compact solution footprint. Its 2.5V to 18V input range is ideal for single to multicell battery configurations as well as poorly regulated 5V or 12V adapters and the output can be set to any voltage from 0.8V to 18V. The LTC3119 has a low 35 μ A quiescent current, programmable switching frequency from 400kHz to 2MHz and can deliver up to 98% conversion efficiency allowing design flexibility and a low noise output.

▼ Broad Line of Monolithic Buck-Boost Converters

Part Number	V _{IN} Range (V)	V _{OUT} Range (V)	I _{OUT} in Buck Mode (A)	Comments
LTC3114-1	2.2 to 40	2.7 to 40	1	I _Q = 30 μ A, Efficiency up to 96%, Programmable Output Current
LTC3118	2.2 to 18	2 to 18	2	Dual Input PowerPath™, Efficiency up to 94%
LTC3115	2.7 to 40	2.7 to 40	2	I _Q = 30 μ A, Efficiency up to 95%, UVLO
LTC3112	2.7 to 15	2.5 to 14	2.5	I _Q = 50 μ A, Efficiency up to 95%, OVP, Output Disconnect
LTC3113	1.8 to 5.5	1.8 to 5.5	4	I _Q = 40 μ A, Efficiency up to 96%, Output Disconnect
LTC3119	2.5 to 18	0.8 to 18	5	I_Q = 35μA, Efficiency up to 98%, MPCC
LTM8054	5 to 36	1.2 to 36	5.4	15mm x 11.25mm x 3.42mm BGA Package, Internal Inductor
LTM8056	5 to 58	1.2 to 48	5.5	15mm x 15mm x 4.92mm BGA Package, Internal Inductor
LTM8055	5 to 36	1.2 to 36	8.5	15mm x 15mm x 4.92mm BGA Package, Internal Inductor
LTM4607	4.5 to 36	0.8 to 24	10	15mm x 15mm x 2.82mm LGA Package, External Inductor
LTM4609	4.5 to 36	0.8 to 34	10	15mm x 15mm x 2.82mm LGA or 15mm x 15mm x 3.42mm BGA Package, External Inductor
LTM4605	4.5 to 20	0.8 to 16	12	15mm x 15mm x 2.82mm LGA Package, External Inductor

▼ Info & Free Samples

www.linear.com/product/LTC3119
1-800-4-LINEAR

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