The LT®8610/11 are our first constant frequency, ultralow quiescent current high voltage monolithic synchronous buck regulators. They consume only 2.5µA of quiescent current while regulating an output of 3.3V from a 12V input source. Their low ripple Burst Mode® operation maintains high efficiencies at low output currents while keeping output ripple below 10mV_p-p. Even at >2MHz switching frequency, high step-down ratios enable compact footprints for a wide array of applications, including automotive. The LT8611 enables accurate current regulation and monitoring for driving LEDs, charging batteries or supercaps, and for controlling power dissipation during fault conditions.

**Features**
- 3.4V to 42V Input Range
- 2.5µA I_Q Regulating @ 12V_IN to 3.3V_OUT
- Output Ripple <10mV_p-p
- 99.9% Duty Cycle for Low Dropout
- 94% Efficiency at 1A, 12V_IN to 3.3V_OUT
- >2MHz Operation even with High Step-down Ratios
- Accurate Input/Output Current Regulation, Limiting and Monitoring (LT8611)

**Info & Free Samples**
www.linear.com/product/LT8610
1-800-4-LINEAR

**Actual Size**
15mm x 18mm