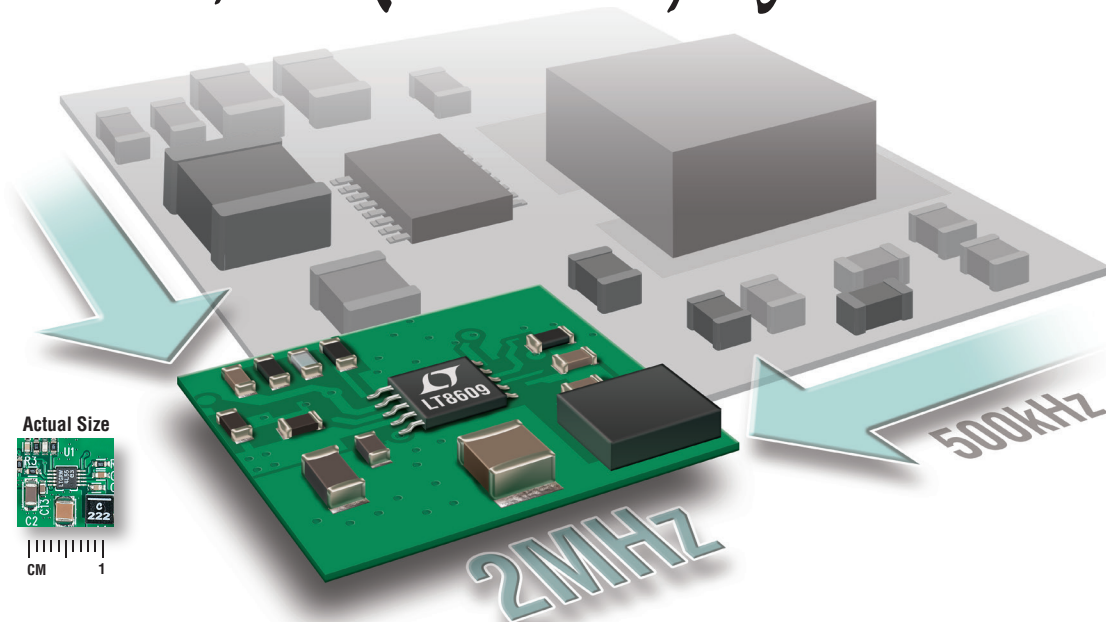


# 93% Efficient at 2MHz 42V, 2A (3A Peak) Sync Buck



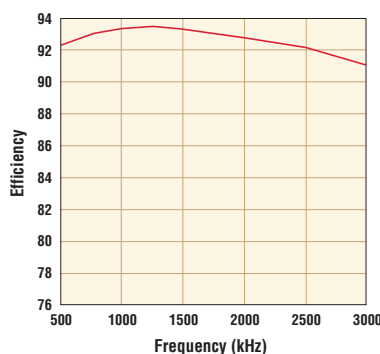
## Faster, Smaller, Quieter

The LT<sup>®</sup>8609 combines high efficiency and high switching frequencies to deliver a very compact synchronous step-down 2A (3A peak) solution. It offers 93% efficiency switching at 2MHz stepping 12V<sub>IN</sub> down to 5V<sub>OUT</sub>, offering a very small solution footprint while keeping switching noise out of critical frequency bands. Spread spectrum frequency modulation reduces EMI concerns. The LT8609 delivers 2A of continuous output current and can deliver 3A peak load for up to 1 second offering a tiny solution for applications ranging from automotive power systems to GSM modems. Its Burst Mode<sup>®</sup> operation only requires 2.5 $\mu$ A of quiescent current extending battery life.

### ▼ Features

- Wide Input Voltage Range: 3.0V to 42V
- Ultralow Quiescent Current <2.5 $\mu$ A
- High Efficiency 2MHz Synchronous Operation 93%
- 2A Maximum Continuous Output, 3A Peak Transient Output
- Spread Spectrum Frequency Modulation for Low EMI
- Fast Minimum Switch-On Time: 45ns
- Adjustable and Synchronizable: 200kHz to 2.2MHz
- Thermally Enhanced MSOP-10 Package

12V<sub>IN</sub> to 5V<sub>OUT</sub> @ 1A I<sub>OUT</sub>  
Efficiency vs Switching Frequency



### ▼ Info & Free Samples

[www.linear.com/product/LT8609](http://www.linear.com/product/LT8609)

1-800-4-LINEAR

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