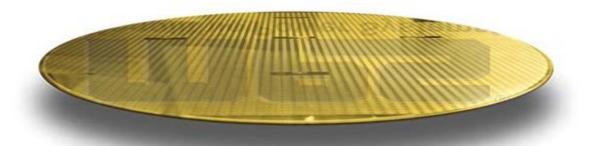
The Future of Analog Technology®



Monolithic Power Systems



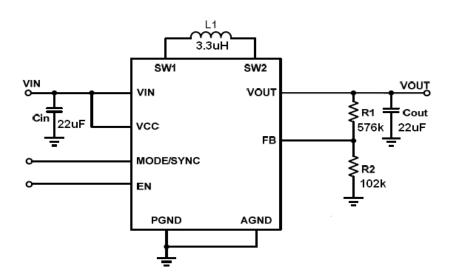
MP2155/28163 2.2A/2.9A 5.5V High Efficiency, Single Inductor Buck-Boost Converter in 3x3mm QFN10 Package

MP2155/MP28163 High Efficiency Single Inductor Buck-Boost Converter with 2.2A/2.9A Switches

FEATURES

- High efficiency- up to 95%
- MP2155- 2.2A Switch Current Limit
- MP28163- 2.9A Switch Current Limit
- Load disconnect during shutdown
- Input voltage range: 2V to 5.5V
- Adjustable output voltage from 1.5V to 5V
- 1.2MHz switching frequency
- Power save mode at light load
- Quiescent current less than 80µA
- Internal loop compensation for fast response
- Internal soft start
- OTP SCP and OVP for output voltage
- Minimal external components
- Available in small 3x3mm QFN10 package

Typical Application

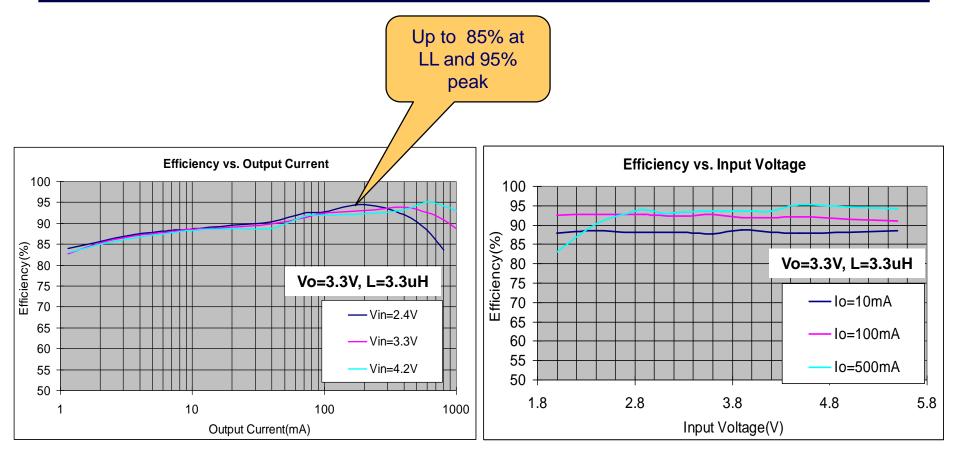


BENEFITS

- Minimal external components Suitable for limited space
- Low Iq High light load efficiency, low standby power
- High Switching Frequency smaller inductor size
- Smooth and reliable mode transition between buck boost



Efficiency



The efficiency is up to 95%. Excellent light load efficiency

<u>3</u> The Future of Analog IC Technology®



- MP2155/MP28163 are high-efficiency, single inductor Buck-Boost converter. They target all battery-operated applications.
- The device provides up to 85% efficiency at 1mA load and up to 95% at full load.
- This is a very important feature for battery life.