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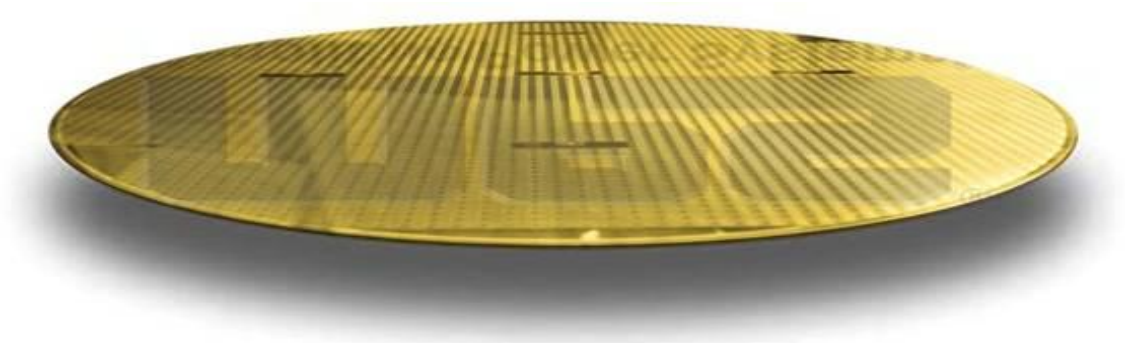
MPS®
Monolithic Power Systems



MP2155/28163

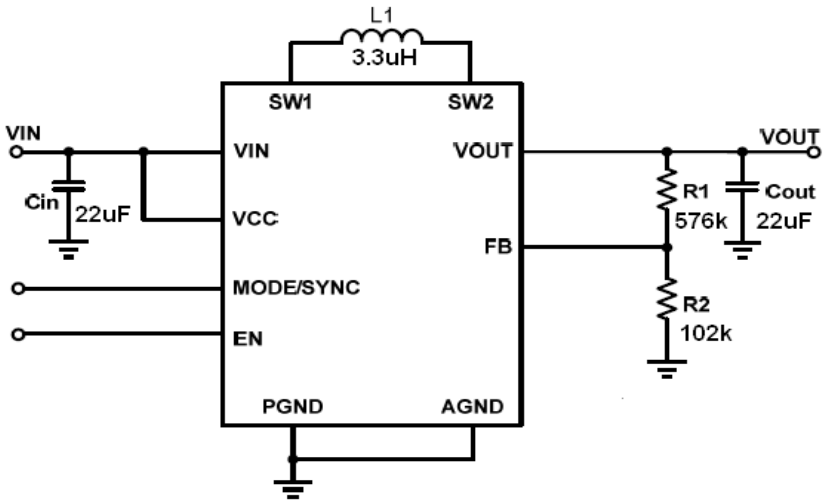
2.2A/2.9A 5.5V High Efficiency, Single Inductor Buck-Boost Converter in 3x3mm QFN10 Package

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

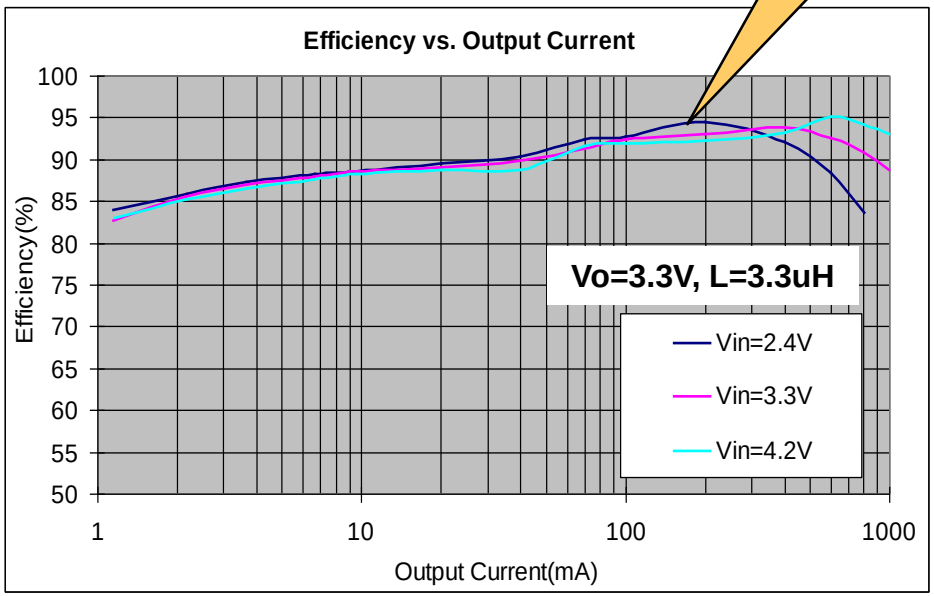


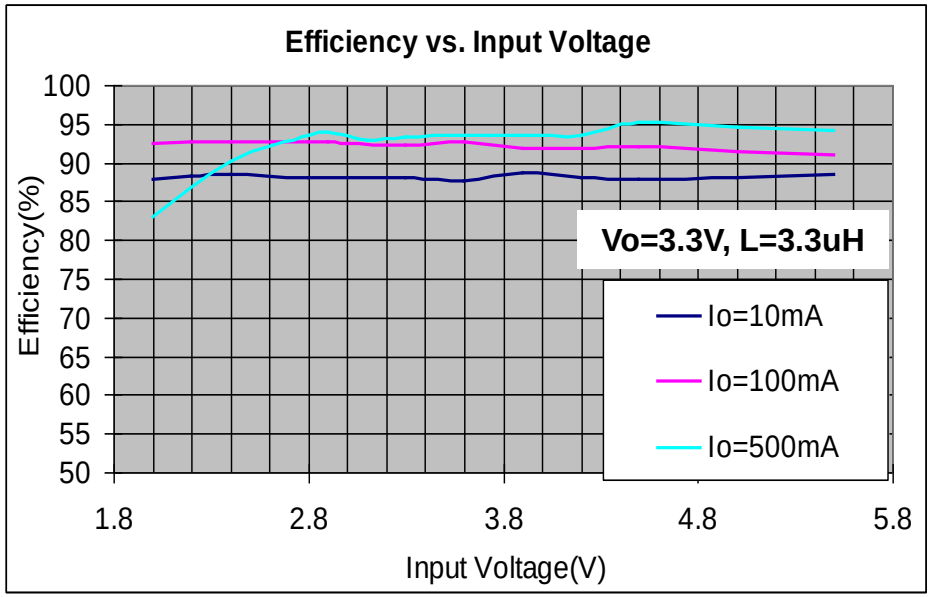
BENEFITS

- 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

Up to 85% at LL and 95% peak





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

- POS
- Portable instruments
- Battery-powered Devices
- Tablet PCs
- GSM/GPRS
- System Controls

Tablet PC

Portable

Battery

Smart phone

POS

Conclusion for MP2155/MP28163

- 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.

Link to Data:

- MP2155
- MP28163