



APPLICATION NOTE 479

All-Ceramic 320mA Step-Down Converter for USB

Additional Information:

- [Quick View Data Sheet for the MAX1692](#)
- [Samples and Literature Order Form](#)
- Powerhelp@design.maxim.com

A USB-powered device is constrained to draw no more than 0.5A from the input supply. Efficiency is paramount in order to maximize the available power from the port, so a synchronous buck regulator with internal switches is the best choice. In addition, this application can be implemented with all-ceramic capacitors for lowest profile and high availability. This MAX1692 circuit delivers +3.18V at 320mA from +5.25V input with 90.7% efficiency.

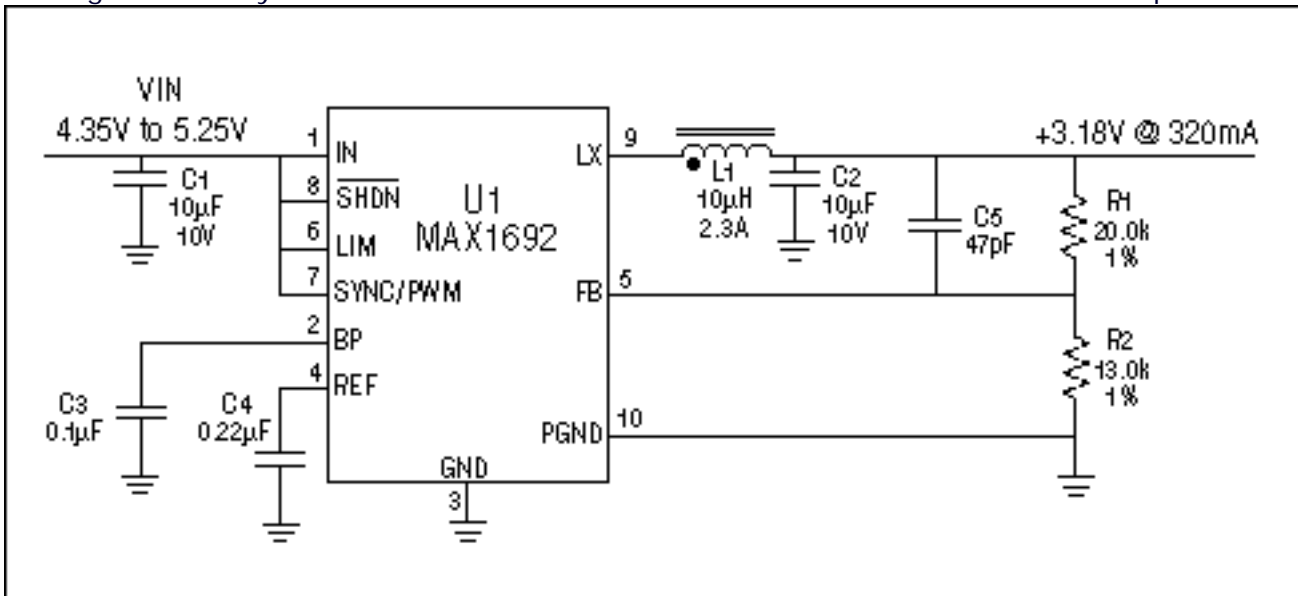


Figure 1

Application Note 479: <http://www.maxim-ic.com/an479>

More Information

For technical questions and support: <http://www.maxim-ic.com/support>

For samples: <http://www.maxim-ic.com/samples>

Other questions and comments: <http://www.maxim-ic.com/contact>

Related Parts

MAX1692: [QuickView](#) -- [Full \(PDF\) Data Sheet](#) -- [Free Samples](#)

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