

## 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](#)
- [Technical Support: Power](#)

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.

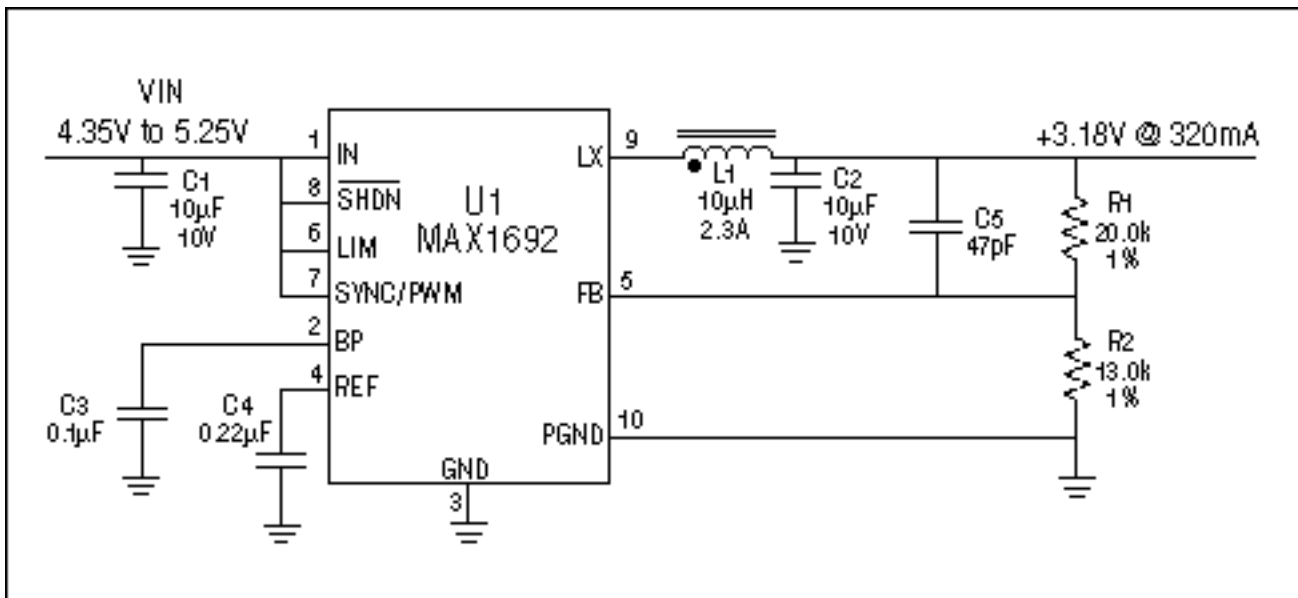


Figure 1.

Application Note 479: [www.maxim-ic.com/an479](http://www.maxim-ic.com/an479)

### More Information

For technical support: [www.maxim-ic.com/support](http://www.maxim-ic.com/support)

For samples: [www.maxim-ic.com/samples](http://www.maxim-ic.com/samples)

Other questions and comments: [www.maxim-ic.com/contact](http://www.maxim-ic.com/contact)

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## Related Parts

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

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