Buck Supply lab - Greg's Advanced Power Supply class

Using the Integrated LM2678T IC, we will construct this buck converter. The coil is pre-wound by a previous class for your use. It's not exactly 22 microHenry but it is close to that. Remember the equation for Inductance?



- A = Area of coil in square meters
- 1 = Average length of coil in meters

8-30V input, 5V out 3A continuous 5A peak DC-DC converter







We are using an LM2576T adj regulator controller IC. We need to modify the Afromods circuit (1) from his youtube presentation to work with our ic.

So, we had some 25mm conduit and we calculated how many turns of wire we need over a set length to get the 22 microHenry approximately Inductance.

There are some

photographs here of the way in which the breadboard will be laid out.



From the data sheet with voltage divider.





Switch mode power supply tutorial: DC-DC buck converters

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