

System Layout Design

Front Side

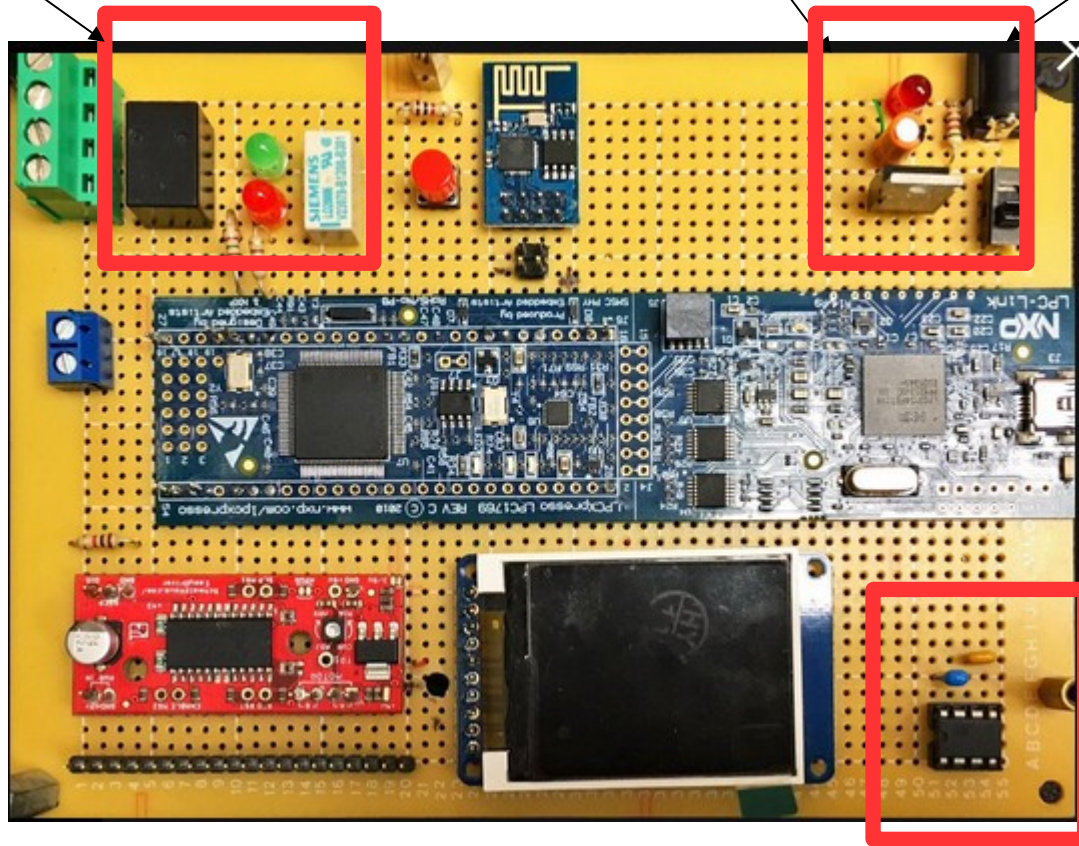
GPIO testing circuit
with solid state relay

PWR circuit unit

J1: PWR
Connector

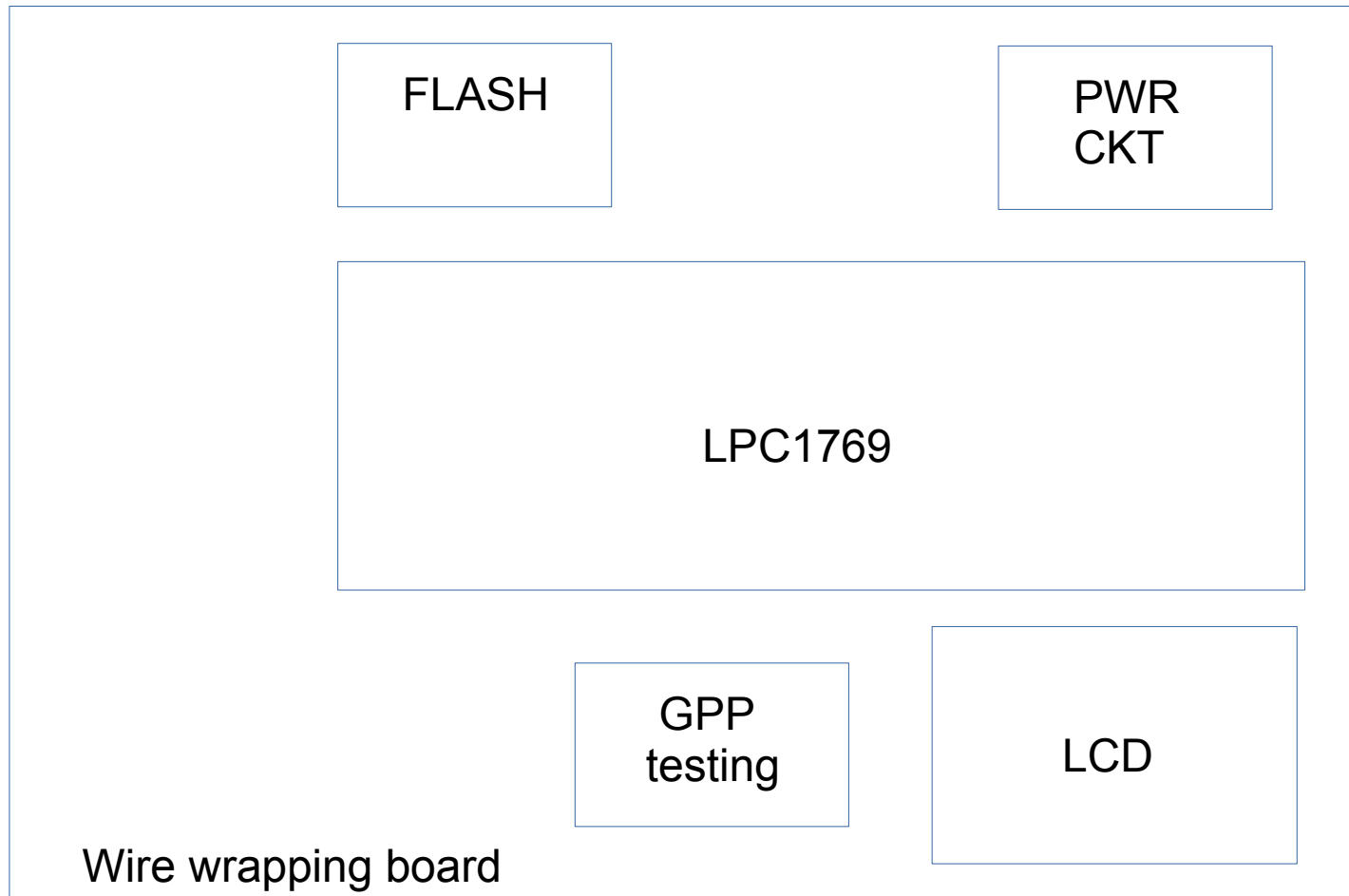
LPC1769

SPI I/F Flash



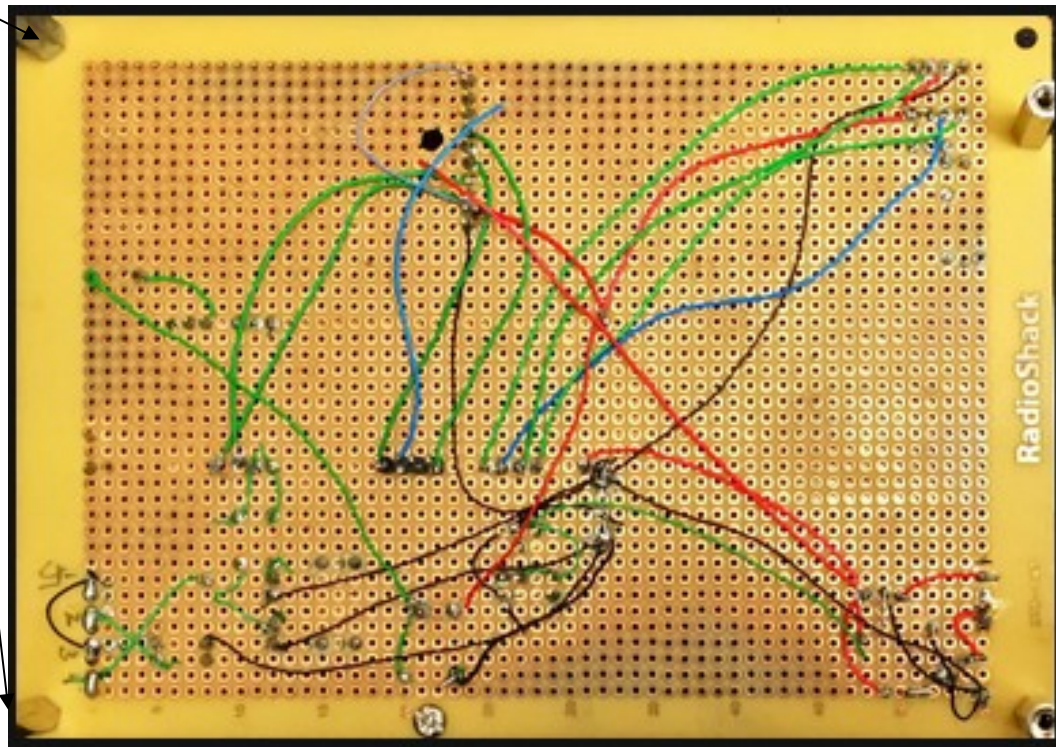
Dimension: 16 x 11 mm or 6.25 x 4.50 inch

First Thing First, Layout Design



System Layout Design Back Side

Standoffs



Standoffs

Wire Wrapping: 18g to 24G

10G - 0.1019"	████████████████████
12G - 0.0808"	████████████████████
14G - 0.0641"	████████████████████
16G - 0.0508"	████████████████████
18G - 0.0403"	████████████████████
20G - 0.0320"	████████████████████
22G - 0.0253"	████████████████████
24G - 0.0201"	████████████████████
26G - 0.0159"	████████████████████
28G - 0.0126"	████████████████████
30G - 0.0100"	████████████████████
32G - 0.0080"	████████████████████
34G - 0.0063"	████████████████████

Wire soldered or wire wrapped

http://www.softflexcompany.com/WSWrap per.jsp?mypage=Tips_Wire_Temper.html

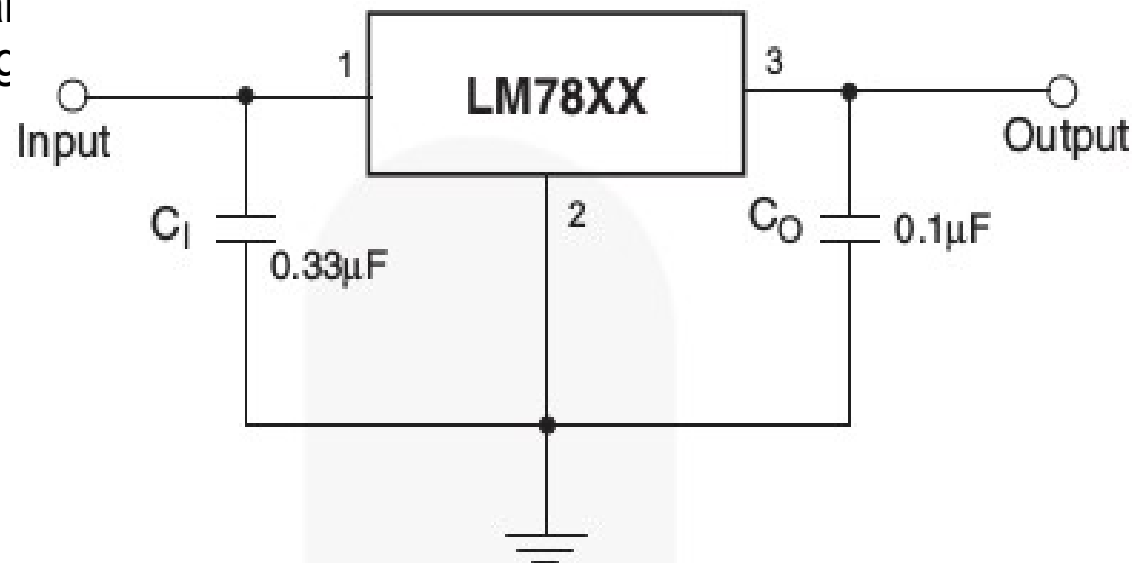
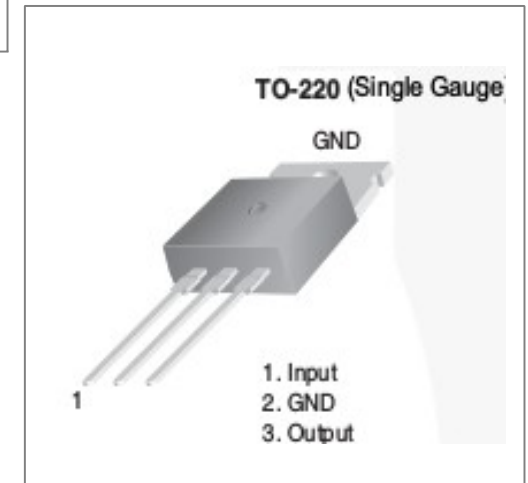
PWR Regulator LM7805



LM78XX / LM78XXA

3-Terminal 1 A Positive Voltage Regulator

The LM78XX series of three-terminal positive regulators is available in the TO-220 package and with several fixed output voltages, making them useful in a wide range of applications. Each type employs internal current limiting, thermal shut-down, and safe operating area protection. If adequate heat sinking is provided, they can deliver over 1 A output current. Although designed primarily as fixed-voltage regulators, these devices can also be used as adjustable voltage regulators.



Note: 1. Voltage drop 1.5 volt;
2. current output 1 A.