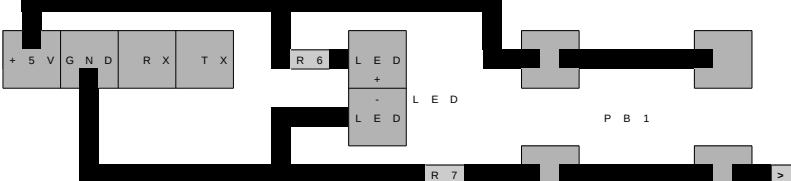
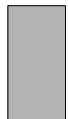


T - T +



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 .



J M P 1 Jumper (default shorted) – remove jumper to measure current

J M P 2 Jumper (default shorted) – remove to use negative power supply, by default it's tied to ground using jumper

J M P 3 Jumper (default shorted) – connects T+ to ground as explained in datasheet

I C 1 PIC16F1519 MCU (40-DIP)

I C 2 AD595AQ thermocouple amplifier (14-DIP)

I C 3 78L05ACZ 5v 100mA linear regulator (TO-92)

C 1 100nF ceramic capacitor (decoupling)

C 2 100nF ceramic capacitor (decoupling)

C 3 33uF 35v electrolytic (anything 1uF or more and above maximum input voltage regulator will see, will do)

R 1 7500 OHM 1%

R 2 7500 OHM 1%

R 3 8200 OHM 5% (voltage divider for battery voltage measurement)

R 4 2200 OHM 5% (voltage divider for battery voltage measurement)

R 5 8200 OHM 5% (for ICSP, MCLR header), recommended to be below 10kOhm

R 6 10 KOHM 5% (limit current going to LED), reduce if using cheaper LEDs

R 7 1 KOHM 1% (pulldown resistor for button) (tolerance is not important)