





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)