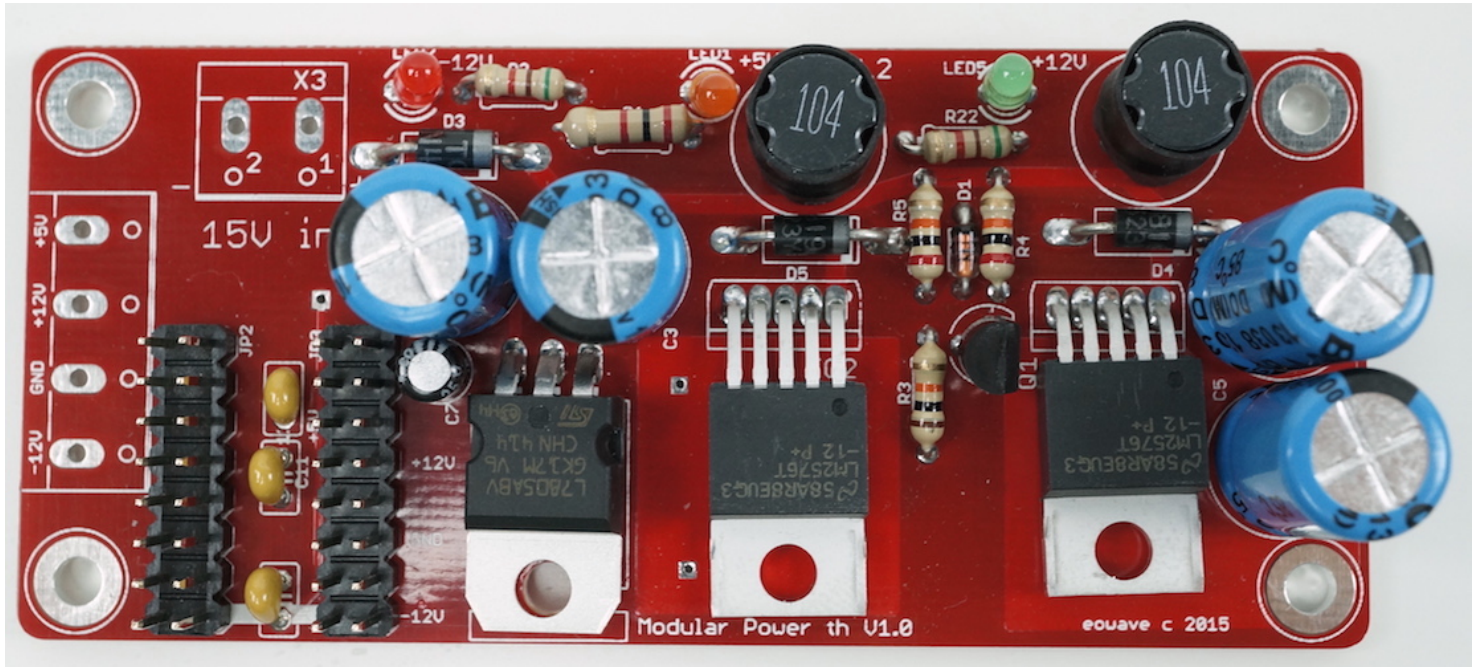


EOWAVE Power Kit.

If you have any thoughts about the mounting process do not hesitate to contact info@eowave.com



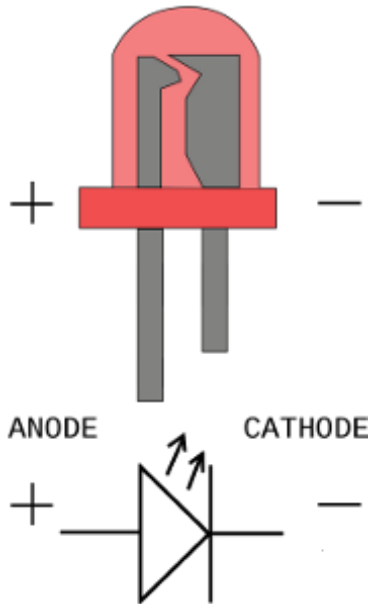
Building the Kit.

This kit is not for beginners, you should have soldering skills and you must know the correct direction to install ICs, LEDs and capacitors. Eowave is not responsible if you solder a component in the wrong direction or if by consequence the component(s) is destroyed. Read the instructions carefully before starting to solder. Use the pictures to verify the placement if you have doubts.

A useful resistor colour code calculator can be found here <http://www.digikey.com/en/resources/conversion-calculators/conversion-calculator-resistor-color-code-4-band>

Place and solder components in the order advised below:

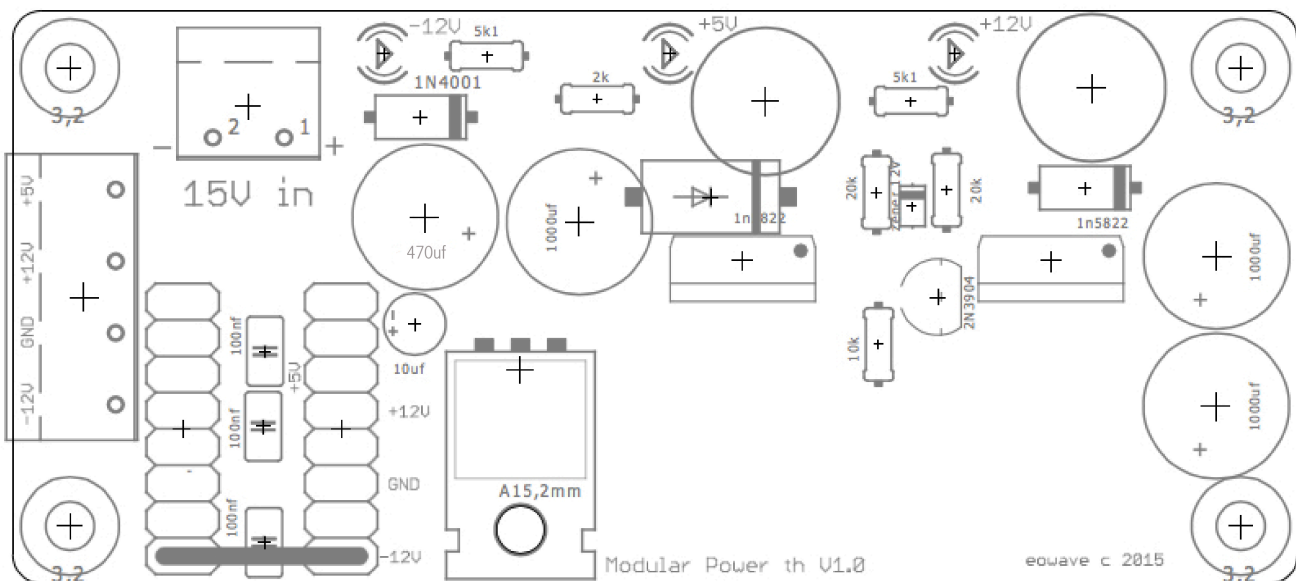
- resistors
- diodes
- LED's and small capacitors (C2, C11, C12) please note, in the first run of PCB's only C11 is printed. These capacitors are all placed between the headers JP2 and JP3 (pictured above)
- IC's and transistor
- headers
- inductors and capacitor C7
- larger capacitors C1 then C3, C4, C5



Please use the diagram opposite when placing the LED's

TESTS

Thorough tests should be taken using a multimeter before any module is plugged in. **Eowave can not take any responsibility for modules damaged due to improper use of this kit.** Plug the power supply into the mains and test the points on the left hand side of the PCB for each rail (next to the headers) you should be getting 12v readings.



Qty	Value	Device	Package	Parts	Description
1		78XXL	78XXL	IC1	VOLTAGE REGULATOR
1		LED3MM	LED3_Orange	LED1	LED
1		LED3MM	LED3_Red	LED2	LED
1		LED3MM	LED3_Green	LED5	LED
			TO-220-5_IN-		LM2576/LM2576HV
2		LM2576-T05A	LINE	IC2, IC3	Series
2		PINH2-2X8	2X08	JP2, JP3	PIN HEADER
2		SD12K100	SD12K100	L1, L2	INDUCTOR
1	470uf	CPOL-EU		C1	POLARIZED CAPACITOR
		CPOL-EUE3.5-			
3	1000uf	10	E3,5-10	C3, C4, C5	POLARIZED CAPACITOR
		C-EU025-			
3	100nf	025X050	C025-025X050	C2, C11, C12	CAPACITOR
1	10k	R-EU_0204/7	0204/7	R3	RESISTOR
1	10uf	CPOL-EUE2-4	E2-4	C7	POLARIZED CAPACITOR
1	1N4001	DIODE-P1-10	P1-10	D3	DIODE
2	1n5822	DIODE-P1-10	P1-10	D4, D5	DIODE
2	20k	R-EU_0204/7	0204/7	R4, R5	RESISTOR
1	2N3904	2N3904	TO92	Q1	NPN Transistor
1	2k	R-EU_0204/7	0204/7	R1	RESISTOR