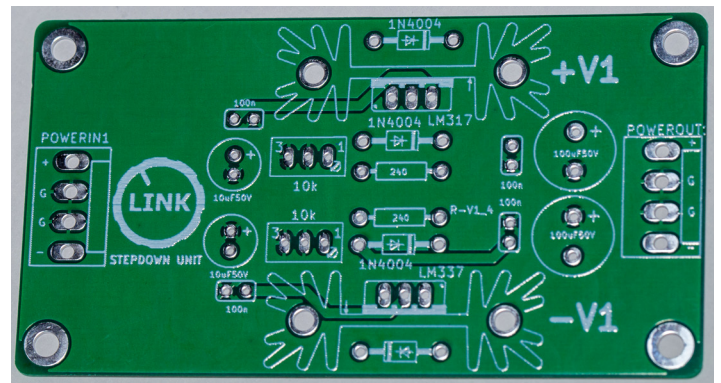
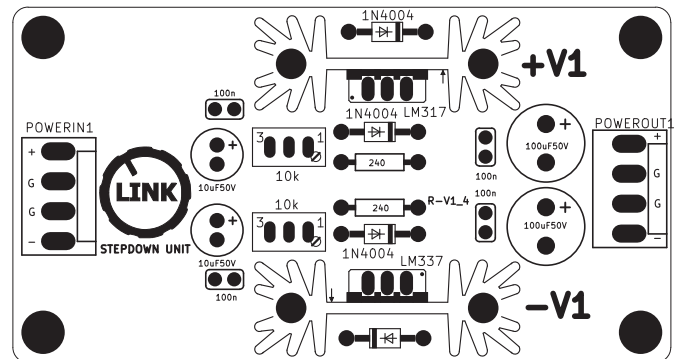


# STEPDOWN

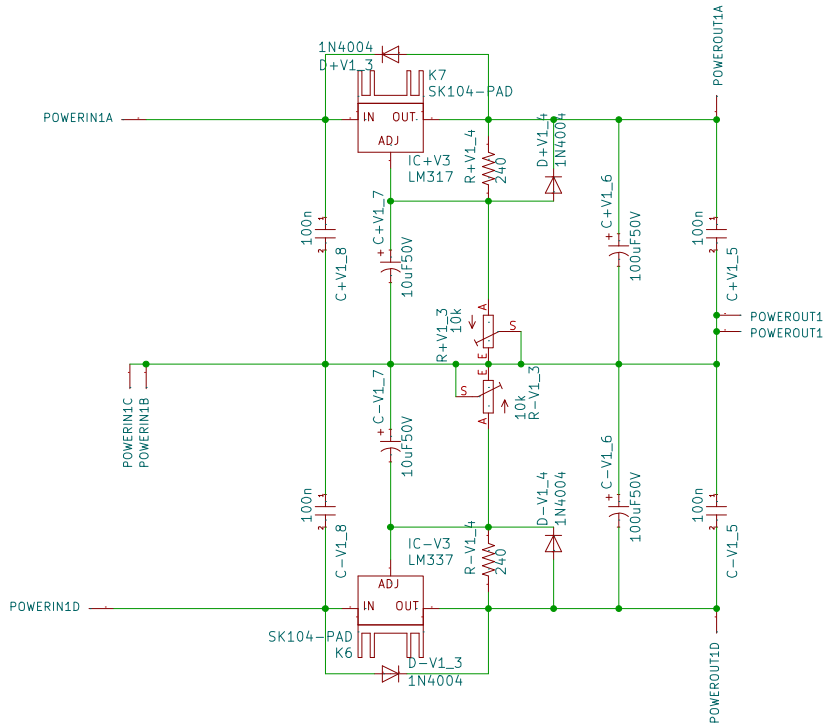
Let me introduce this Mini Project. It's basically a small POWER STEPDOWN UNIT. It can regulate supply a positive and a negative power rail. to a lower Voltage. Fits inside a one unit high rack cases. You can run it with a dual DC Power Supply and regulate down a stable Power from +/-30V down to +/-3V. The Project is intended to supply many small Projects. If you plan to power up to 1A each rail, I suggest a different Heatsink solution, cause the Onboard Cooling will be not enough. We have designed this Project in Business Card Format 85x55mm. In this Sheet you get Schematic, BOM and Overlay. This Guide will help with setting up this nice Power Supply. Have Fun!

## PCB layout for reference



**DISCLAIMER:** Proceed at your own risk. I am not liable for any damage, harm or loss of any kind resulting from the assembly and/or use of this PCB set. Safety provisions should always be exercised whenever working with any electronics. The following instructions are guidelines only. I can make no guarantee of the accuracy of contents contained within this document.

# Schematics



## Bill of Materials (BOM)

#	PART NAME	TYPE OF PART	COUNT	VALUE
1	R+V1_4,R-V1_4	Resistor	2	240R
2	IC+V3	Regulator	1	LM317
3	IC-V3	Regulator	1	LM337
4	C-V1_5,C+V1_5,C+V1_8,C-V1_8	Capacitor 2,5mm	4	100n
5	C-V1_7,C+V1_7	Electrolytic	2	10uF50V
6	C+V1_6,C-V1_6	Electrolytic	2	100uF50V
7	D+V1_3,D+V1_4,D-V1_3,D-V1_4	Diode	4	1N4004
8	POWERIN1,POWEROUT1	Connector	2	KK-156-4
9	R+V1_3,R-V1_3	S64W Trimmer	2	10k
10	K6,K7	Heatsink	2	SK104-PAD