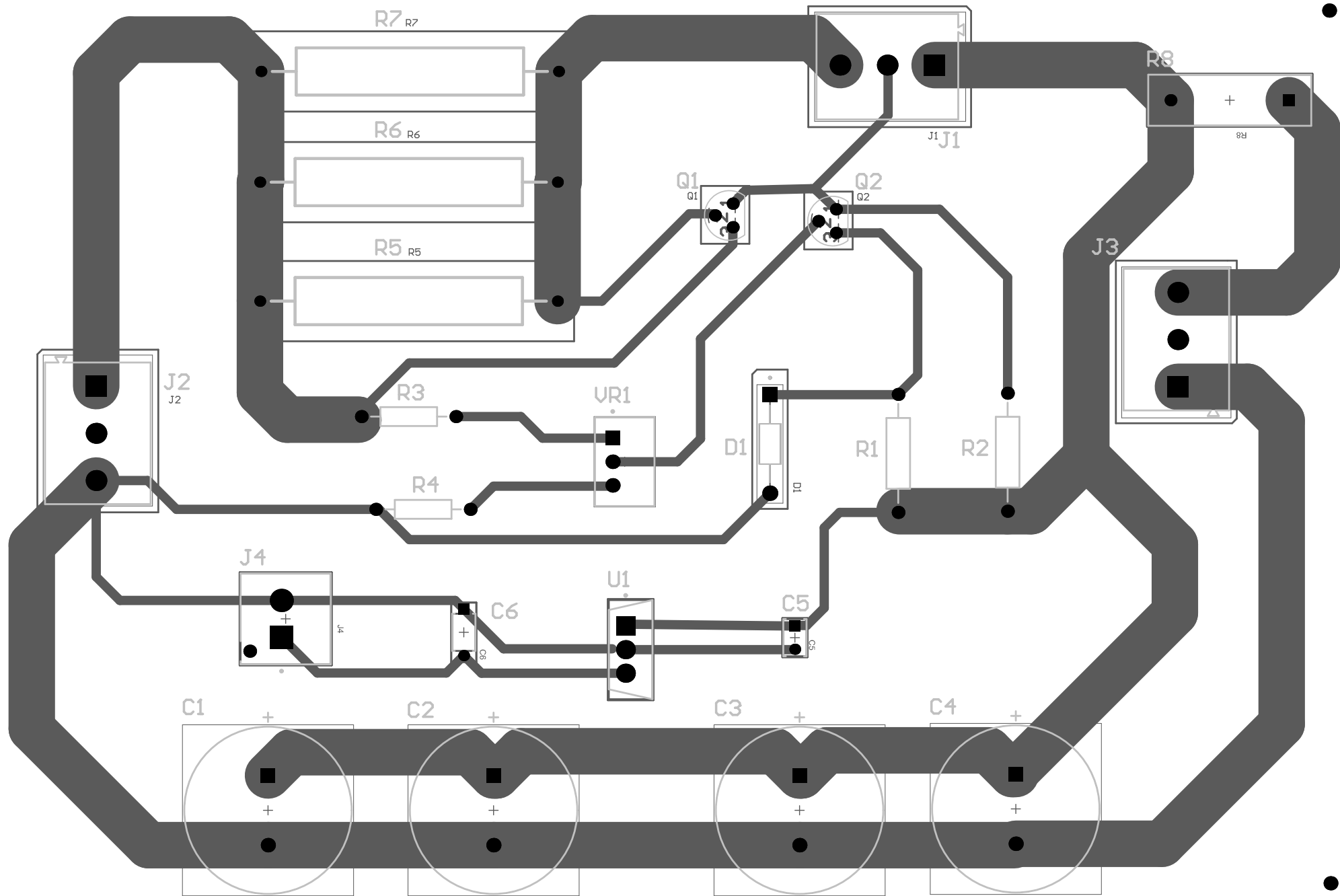


Title			Linear Power Supply	
Size	Number	Group 15		Revision
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Date:	3/31/2022	Sheet	of	
File:	C:\Users\...\Schematics_Sheet.SchDoc	Drawn By:	Ravidu Munasinghe	



Comment	Description	Designator	Footprint	LibRef	Quantity
6800uF	6800 μ F 35 V Aluminum Electrolytic Capacitors Radial, Can - 2000 Hrs @ 85°C	C1, C2, C3, C4	Capacitor	493-11046-ND	4
100nF	Cap Ceramic 100nF 100V X7R \pm 10% Radial 2.5mm +125°C Automotive Ammo Pack	C5	capacitor 0.1uf	CMP-06035-052488-1	1
330nF	Cap Ceramic Monolithic 330nF 100V 10% Thru-Hole Bulk	C6	Cpacitor 0.33uf	CMP-06035-045092-1	1
1N4733	Zener Diode 5.1V	D1	1N4733	D Zener	1
3WireConn	Serie 2365 - 5.08 mm Horizontal Cable Entry Modular with Rising Cage Clamp WR-TBL, 3 pin	J1, J2, J3	Connector	CMP-1502-02614-1	3
JST2Pin	CONN HEADER VERT 2POS 3.96MM	J4	JST 2 Pin	CMP-17439-000031-1	1
BC547A	Bipolar (BJT) Transistor NPN 45 V 100 mA 300MHz 625 mW Through Hole TO- 92	Q1, Q2	BC547	2368-BC547A-ND	2
330R	330 Ohms \pm 5% 1W Through Hole Resistor Axial Fusible, Safety	R1	AXIAL-0.5	2368-F1W133-ND	1
470R	470 Ohms \pm 5% 1W Through Hole Resistor Axial Flame Proof, Safety Metal Oxide Film	R2	AXIAL-0.5	470W-1-ND	1
1K Res	1 kOhms \pm 5% 0.25W, 1/4W Through Hole Resistor Axial Flame Retardant Coating, Safety Carbon Film	R3, R4	AXIAL-0.4	CF14JT1K00TR-ND	2
0.22R	Wirewound Resistors - Through Hole 0.22ohms 5% Tol 7W	R5, R6, R7	0.22 Ohm Ceramic Res	280-CR10-0.22-RC	3
Thermistor	Thermistor PTC 470 Ω 2-Pin Screw Mount Radial Bulk	R8	Thermistor	CMP-06022-000249-1	1
LM7812CT	IC REG LINEAR 12V 1A TO220-3	U1	Fan_Regulator	CMP-07128-000015-1	1
10K VAR	10 kOhms 0.1W, 1/10W PC Pins Through Hole Trimmer Potentiometer Carbon 1.0 Turn Top Adjustment	VR1	Var_Res_Final	478-601030-ND	1