

Bill Of Materials

8 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
6	C1-C2,C5-C8	0.47uF	CAP CERM 3900pF 5% 50V NP0 1206
2	C9-C10	10u	Electrolytic Capacitor, Miniature, 10 µF, 63 V, ZL Series, ± 20%, Radial Leaded, 16 mm

Sub-totals:

16 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
2	R1-R2	33	Through hole resistor 1/4W 1%
2	R3,R6	680	Through hole resistor 1/4W 1%
4	R4,R7-R8, R14	470	Through hole resistor 1/4W 1%
4	R5,R9-R10,R15	0.2	Through Hole Resistor, 0.2 ohm, SQ Series, 5 W, ± 5%, Axial Leaded
2	R11-R12	150K	Through hole resistor 1/4W 1%
2	R13,R16	1K2	Through hole resistor 1/4W 1%

Sub-totals:

4 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	U1	LM317T	1.5A Adjustable Output Positive Voltage Regulator
2	U2,U4	OPA137P	Low Cost FET-Input Operational Amplifiers (1MHz, 3.5V/us, 4.5-36V)
1	U3	LM337T	2A Adjustable Output Negative Voltage Regulator

Sub-totals:

2 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	Q1	MJ2955	Silicon PNP Power Transistor (115W, 200°C)
1	Q2	2N3055	Silicon NPN Power Transistor (115W, 200°C)

Sub-totals:

6 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
2	D1-D2	1N4148	Si - 75.0V, 0.300A, 4.00ns in DO35 package
2	D3-D4	LED-RED	LED 5MM (Red) 2mA
2	D5-D6	1N4737A	7.5V 34mA Zener Diode

Sub-totals:

10 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	BAT1	15V	Battery (multi-cell)
2	FU1-FU2	16A	Fuse 5x20mm 16A
3	J1-J3	Banana Connector, 4mm, Jack, Panel Mount, 30A BLUE	Single pin terminal
2	RV1,RV3	100K	Rotary Potentiometer, PTV111-3420A-B104
1	RV2	5K	Dual Rotary Potentiometer PTV112-4420A-A502
1	RV2.1	5K	Rotary Potentiometer PTV111-4420A-A502

Sub-totals: