

Designator	Name	Value	Description	Quantity
C1, C6, C9, C10, C21		104	Capacitor	5
C2, C13	BBC	471	Capacitor	2
C3	35V	3300uF	Polarized Capacitor (Radial),16x25	1
C4, C7, C19	25V	470uF	Polarized Capacitor (Radial)	3
C5, C11	16V	220uF	Polarized Capacitor (Radial)	2
C8, C20	35V	3300uF	Polarized Capacitor (Radial)	2
C12	BBC	153	Capacitor	1
C14	50V	100uF	Polarized Capacitor (Radial)	1
C15, C16, C17	63V	2200uF	Polarized Capacitor (Radial)	3
C18	50V	47uF	Polarized Capacitor (Radial)	1
D1	CC		Typical RED GaAs LED	1
D2, D3, D10, D11	1N5408		1 Amp General Purpose Rectifier	4
D4, D5, D6, D7, D8, D9, D12, D13	1N4007		1 Amp General Purpose Rectifier	8
D14, D15	1N4728		Zener Diode	2
Q1	TL431		TL431	1
Q2	F4905S		P-Channel Power MOSFET	1
Q3, Q5	TIP41		NPN Bipolar Transistor	2
Q4, Q6	S8550		PNP Bipolar Transistor	2
Q7	2N5551		NPN Bipolar Transistor	1
Q8, Q9	S8050		NPN Bipolar Transistor	2
R1, R40, R41		2.7K	Resistor	3
R2, R24, R26		2K	Resistor	3
R3, R6, R10, R20, R21, R23, R28, R30, R37, R39, R45, R46		10K	Resistor	12
R4, R7, R8, R14, R15, R17, R43, R44		100R	Resistor	8
R5		5K	Potentiometer	1
R9, R12		1M	Resistor	2
R11		6.8K	Resistor	1
R13, R29		1k	Resistor	2
R16		3K	Resistor	1
R18, R36		100K	Resistor	2
R19		33K	Resistor	1
R22, R25		4.7K	Resistor	2
R27		1K	Resistor	1
R31, R34		330K	Resistor	2
R32	2W	560K	Resistor	1
R33	2W	4.3K	Resistor	1
R35		56K	Resistor	1
R38, R42		10K	Potentiometer	2
U1, U9, U19	EL817C		EL817C	3
U2, U22	L7812		L7812	2
U3	L7805		L7805	1
U4	TL082		TL082	1
U5	LM393		LM393	1
U6, U8	POT - 3P		POT - 3P	2
U7	POWER3		Power Connector 3	1
U10	L7912		L7912	1
U11	L7905		L7905	1
U12	POWER4		Power Connector 3	1
U13, U14	SDR12VDCSLC		SDR12VDCSLC	2
U15	FAN		FAN	1
U16	KBU1010		KBU1010	1
U17, U20	POWER2		POWER2	2
U18	REG3		REG2	1
U21	DC3 - 12P		DC3 - 12P	1
U23	LM358		LM358	1