

Designator	Value	Name	Description	Quantity
C1, C6, C9, C10, C21	104		Capacitor	5
C2, C13	471	BBC	Capacitor	2
C3, C8, C20	3300uF	35V	Polarized Capacitor (Radial)	3
C4, C7, C19	470uF	25V	Polarized Capacitor (Radial)	3
C5, C11	220uF	16V	Polarized Capacitor (Radial)	2
C12	153	BBC	Capacitor	1
C14	100uF	50V	Polarized Capacitor (Radial)	1
C15, C16, C17	2200uF	63V	Polarized Capacitor (Radial)	3
C18	47uF	50V	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, R27, R29	1K		Resistor	3
R16	3K		Resistor	1
R18, R36	100K		Resistor	2
R19	33K		Resistor	1
R22, R25	4.7K		Resistor	2
R31	330K		Resistor	1
R32	30K	2W	Resistor	1
R33	4.3K	2W	Resistor	1
R34	150K		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