







Description	Comment	Value	Quantity	Designator	Footprint
3.5mm Audio Jack	Audio Jack		1	J1	SJ-43514-SMT
5mm Green LED	LED		1	D4	LED
Capacitor	Ceramic SMD	100nF	9	C16, C17, C18, C19, C20, C21, C22, C23, C24	0805
Capacitor	Ceramic SMD	10nF	2	C7, C9	0805
Capacitor	Ceramic SMD	22nF	1	C12	0805
Capacitor	Electrolytic Aluminium Radial	10uF	9	C1, C3, C4, C6, C8, C11, C13, C14, C15	CAP ELEC
Capacitor	Electrolytic Aluminium Radial	1uF	3	C2, C5, C10	CAP ELEC
Connector KK 3 vias	KK-3		2	P1, P2	KK3
Connector	Terminal block 2	2.54mm pitch, screw	1	P4	KRE-2
Connector	Terminal block 3	2.54mm pitch, screw	2	P3, P5	KRE-3
General-Purpose J-FET Quad Operational Amplifier	TL084ACD		1	U2	SO14_N
General-Purpose Single Bipolar Timer	NE555D		2	U4, U5	SO8_N
High Conductance Fast Diode	1N4148 SMD		7	D1, D2, D3, D5, D6, D7, D8	MINIMELF
Low-Power Dual Operational Amplifier	LM358AD		1	U3	VSSOP8
Low-Power Dual Voltage Comparator	LM393AD		1	U1	SO8_N
NPN Bipolar Transistor	BC817		1	Q3	SOT23_BC
PNP Bipolar Transistor	BC807		6	Q1, Q2, Q4, Q5, Q6, Q7	SOT23_BC
Potentiometer	TRIMPOT	1K	3	R29, R30, R33	Trimpot 1
Potentiometer	TRIMPOT	5K	2	R9, R20	Trimpot 1
Relay	1 reversible contact	12V	1	RL1	RELE 1 CONTATO
Resistor	1/4W	100	2	R10, R21	AXIAL-0.4
Resistor	1/4W	1K5	2	R8, R19	AXIAL-0.4
Resistor	1/4W	2K7	2	R22, R31	AXIAL-0.4
Resistor	1/4W	510	1	R27	AXIAL-0.4
Resistor	1/4W	56K	2	R6, R17	AXIAL-0.4
Resistor	1/4W	820	2	R3, R14	AXIAL-0.4
Resistor	SMD	10K	2	R25, R34	0805
Resistor	SMD	15K	2	R5, R16	0805
Resistor	SMD	1K	12	R1, R2, R4, R7, R11, R12, R13, R15, R18, R23, R24, R26	0805
Resistor	SMD	33K	1	R32	0805
Resistor	SMD	8K2	1	R28	0805
Test point	Ring shape		17	TP1, TP2, TP3, TP	TP_HOLE