

ATTEN 850D BILL OF MATERIALS FOR MAIN CONTROL BOARD

Qty	Description	Location
2	BRIDGE RECTIFIER, 1000V 2A (2W10, round, 4 pin square pitch 5mm x 5mm)	BR1, BR2
3	CAPACITOR, CERAMIC DISC, 100nF (104 50V)	C4, C7, C15
3	CAPACITOR, ELECTROLYTIC, 0.47uF 50V	C10, C11, C12
1	CAPACITOR, ELECTROLYTIC, 470uF 35V	C3
8	CAPACITOR, ELECTROLYTIC, 47uF 35V	C5, C6, C8, C9, C13, C20, C21, C22
2	CAPACITOR, POLYESTER, 100nF (104K 400V)	C18, C19
3	CAPACITOR, POLYESTER, 100nF (104K 630V)	C1, C2, C14, C16
2	CAPACITOR, POLYESTER, 10nF (103K 630V)	C17, C23
3	CONNECTOR, 2 PIN LOCKING JST-VH 0.157" PCB MOUNT	LED1, RV1, RW7
3	CONNECTOR, 3 PIN LOCKING JST-VH 0.157" PCB MOUNT	14V, 220V, RW3
4	CONNECTOR, 4 PIN LOCKING JST-VH 0.157" PCB MOUNT	DISPLAY, PUMP, RL, SW
1	DIODE, ZENER, C9V1 5T, DO-35, 9.1V ZENER, BZX2C9V1	D9
4	DIODE, 1N4007, DO-41	D5, D6, D7, D8
4	DIODE, 1N4148, DO-35	D1, D2, D3, D4
1	DIODE, DIAC, ST D83 CZ44	DIAC
1	INDUCTOR, COMMON MODE CHOKE, DUAL IN/OUT, 4 PINS	L1
1	INDUCTOR, DIFFERENTIAL MODE CHOKE, 14mm DIA, 2 PINS,	L2
1	OPAMP, TL084, DIP14	IC4
2	OPTOISOLATOR, MOC3041 ZERO-CROSS TRIAC DRIVER, DIP6	OPT1, OPT2
1	REGULATOR, LM7805, 5V 1A, TO220	IC1
1	REGULATOR, LM7812, 12V 1A, TO220	IC2
1	REGULATOR, LM79L12, -12V, 100mA, TO92	IC3
6	RESISTOR, 1/4W, 0Ω	RX1, RX2, RX3, RX4, RX5, RX6
1	RESISTOR, 1/4W, 100KΩ	R30
1	RESISTOR, 1/4W, 100Ω	R15
5	RESISTOR, 1/4W, 10KΩ	R6, R7, R12, R34, R40, R27
3	RESISTOR, 1/4W, 10Ω	R21, R32, R33
1	RESISTOR, 1/4W, 150KΩ	R5
1	RESISTOR, 1/4W, 15KΩ	R31
2	RESISTOR, 1/4W, 1KΩ	R8, R11
1	RESISTOR, 1/4W, 20KΩ	R42
1	RESISTOR, 1/4W, 270KΩ	R14
2	RESISTOR, 1/4W, 27Ω	R17, R36
1	RESISTOR, 1/4W, 2KΩ	R10
1	RESISTOR, 1/4W, 3.3MΩ	R1
1	RESISTOR, 1/4W, 3.6KΩ	R41
3	RESISTOR, 1/4W, 330Ω	R18, R37, R39
1	RESISTOR, 1/4W, 470KΩ	R9
3	RESISTOR, 1/4W, 470Ω	R3, R4, R16
2	RESISTOR, 1/4W, 560KΩ	R13, R26
1	RESISTOR, 1/4W, 560Ω	R35
1	RESISTOR, 1/4W, 6.8MΩ	R2
2	RESISTOR, 1W 51Ω	R19, R38
1	RESISTOR, 1Ω 6W (23mm x 7mm DIA)	R20
2	RESISTOR, 3W 56Ω (17mm x 4mm DIA)	R24, R25
1	RESISTOR, HIGH-POWER-CEMENTED-CERAMIC, 1KΩ 5W	R28
1	TIMER, NE555, DIP8	IC5
1	TRANSFORMER, 24V WITH CENTER TAP (12V 0V 12V SECONDARY)	TX1 (EXTERNAL)
1	TRANSISTOR, SS8050, NPN EBC TO92	Q1
2	TRIAC, BT136, 600V 4A	TH2, TH3
1	TRIAC, BT137, 600V 8A (BT139 600V 16A also OK)	TH1
1	TRIMPOT 6mm x 6mm 100KΩ	RW1
2	TRIMPOT 6mm x 6mm 10KΩ	RW4, RW5
2	TRIMPOT 6mm x 6mm 1MΩ	RW8, RW9
1	TRIMPOT 6mm x 6mm 200KΩ	RW6
1	TRIMPOT 6mm x 6mm 2KΩ	RW2
1	VARISTOR, METAL OXIDE DISC 10mm, 470V (10D471K)	RV1
1	VOLTAGE REFERENCE, TL431, TO92	IC6