

DS840LSN PCB Parts List

PC Board		Component recognized, rated 94V-0
Terminal Strip	TS1	7-Wide; Weco #950-DS/07, or Dinkle #ED500V-07P (may be marked ED500V-2110), or PTR Connex #AK500/7DS-5
Integrated Circuit	U1	Texas Inst. #TLC27L4 Op-Amp
Integrated Circuit	U2	Microchip #PIC16F72 MicroProcessor
Integrated Circuit	U5	Bosch #CM250 LSN ASIC
Integrated Circuit	U8	Seiko #S-812C50AUA
Transistor	Q1	Type 176 or 177 J-FET
Transistor	Q2	Type 4403, Silicon, PNP
Transistor	Q3, 4, 5	Type BC847CW (Q62702-C2306)
Transistor	Q99	Type BFP640, Silicon, NPN
LED	LED1	Yellow; Kingbright #L7113SYC/H, or Agilent #HLMP-EL08, or Excellence Opto #5EYBCC0-DG
LED	LED2	Red; Kingbright #L2523SURC, or Agilent #HLMP-EG08, or Excellence Opto #5ERBCCW, or Ledtronics #L200CWR3KF-15D, or Fairchild #MV8016, or Everlight #333-URC-3
LED	LED3	Kingbright #L7113VGC/E, or UNI #MVL-5A4TG, or Everlight #332-2SUGC
Detector	DET1	Nippon #DSI-2
Switch	S3	SPST, Lever; Omron #D2F-LN, or Cherry #DG1CB1LA, or Zippy #DM-03S-1P, or E-Switch #TLDM-01
Diode	D5, 6	Zener; Type #BZD27C36, 36V
Diode	D99	Schottky; Agilent #HSMS-2862, or M/A-Com #MA4E2054-287T
Resonator	Y99	Ceramic, 10.650 Ghz nominal
Capacitor	C1	Ceramic Chip, 0.033 μ F, 25V
Capacitor	C2	Tantalum, 10 μ F, 16V
Capacitor	C3, 4, 5, 16, 23	Ceramic Chip, 27pF, 50V
Capacitor	C6	Ceramic Chip, 2700pF, 50V
Capacitor	C7, 8, 9, 10, 11, 13, 14, 21	Aluminum, 47 μ F, 6.3V
Capacitor	C12	Aluminum, 10 μ F, 16V
Capacitor	C15, 17, 18, 22, 25, 26, 27	Ceramic Chip, 0.01 μ F, 50V
Capacitor	C19, 30	Ceramic Chip, 100 μ F, 50V
Capacitor	C20	Ceramic Chip, 3300pF, 50V
Capacitor	C24	Ceramic Chip, 0.1 μ F, 25V
Capacitor	C28	Aluminum, 1 μ F, 50V
Capacitor	C29	Aluminum, 100 μ F, 10V
Capacitor	C32	Aluminum, 100 μ F, 25V
Capacitor	C99, 399	Ceramic Chip, 0.5pF, 50V
Capacitor	C199, 299	Ceramic Chip, 100pF, 50V
Resistor	R1, 23, 24, 29	Thick film, 0.06W, 825K, 1%

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Resistor	R2	Thick film, 0.06W, 5.62K, 1%
Resistor	R3, 25	Thick film, 0.06W, 681K, 1%
Resistor	R4	Thick film, 0.06W, 1M, 1%
Resistor	R5	Thick film, 0.06W, 6.81K, 1%
Resistor	R6, 32, 34, 35	Thick film, 0.06W, 1K, 1%
Resistor	R7, 30, 37, 38	Thick film, 0.06W, 2.21K, 1%
Resistor	R8	Thick film, 0.06W, 4.75K, 1%
Resistor	R9	Thick film, 0.06W, 1.5K, 1%
Resistor	R10	Thick film, 0.06W, 221K, 1%
Resistor	R11	Thick film, 0.06W, 47.5K, 1%
Resistor	R12	Thick film, 0.06W, 332K, 1%
Resistor	R13, 28	Thick film, 0.06W, 274K, 1%
Resistor	R14	Thick film, 0.06W, 0 ohms
Resistor	R15, 16, 26	Thick film, 0.06W, 18.2K, 1%
Resistor	R17, 19, 20, 21	Thick film, 0.06W, 10K, 1%
Resistor	R18	Thick film, 0.06W, 255K, 1%
Resistor	R22	Thick film, 0.06W, 100K, 1%
Resistor	R33	Thick film, 0.06W, 22.1K, 1%
Resistor	R36	Thick film, 0.06W, 47.5K, 1%
Resistor	R39, 40, 41	Thick film, 0.06W, 82.5K, 1%
Resistor	R199	Thick film, 0.06W, 75 ohms, 5%
Resistor	R299, 399	Thick film, 0.06W, 100 ohms, 5%
Resistor	R499	Thick film, 0.06W, 1.1K, 5%
Resistor	R599	Thick film, 0.06W, 470 ohms, 5%
Potentiometer	R31	Carbon, 0.10W, 1M, 30%
Thermistor	J1	10K @ 25 deg. C, 5%