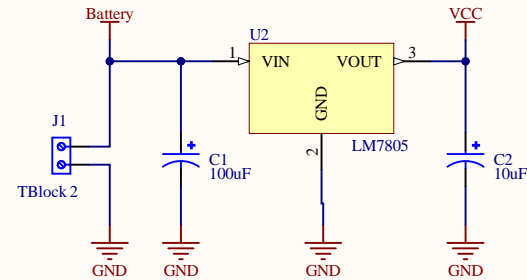
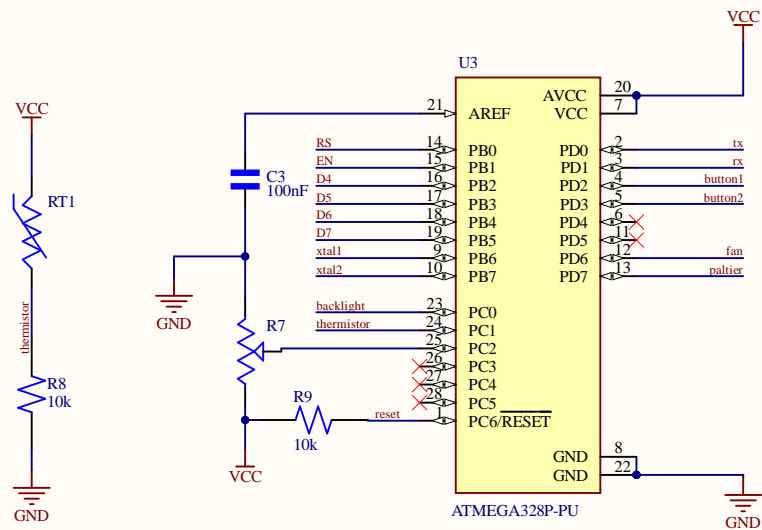


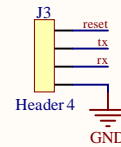
Solar charging UNIT



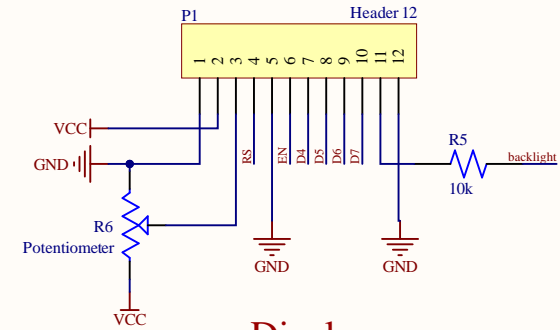
Power supply UNIT



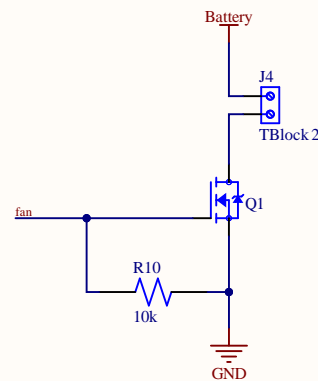
Control UNIT



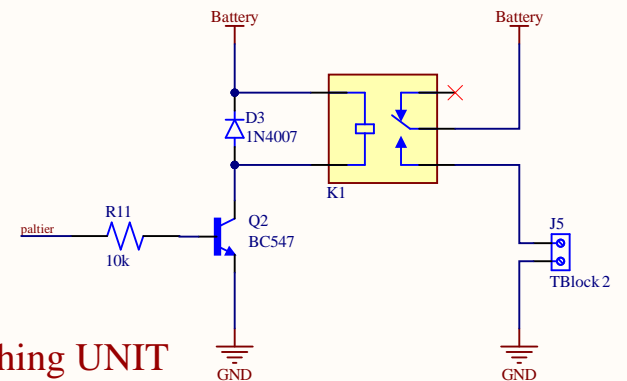
UART

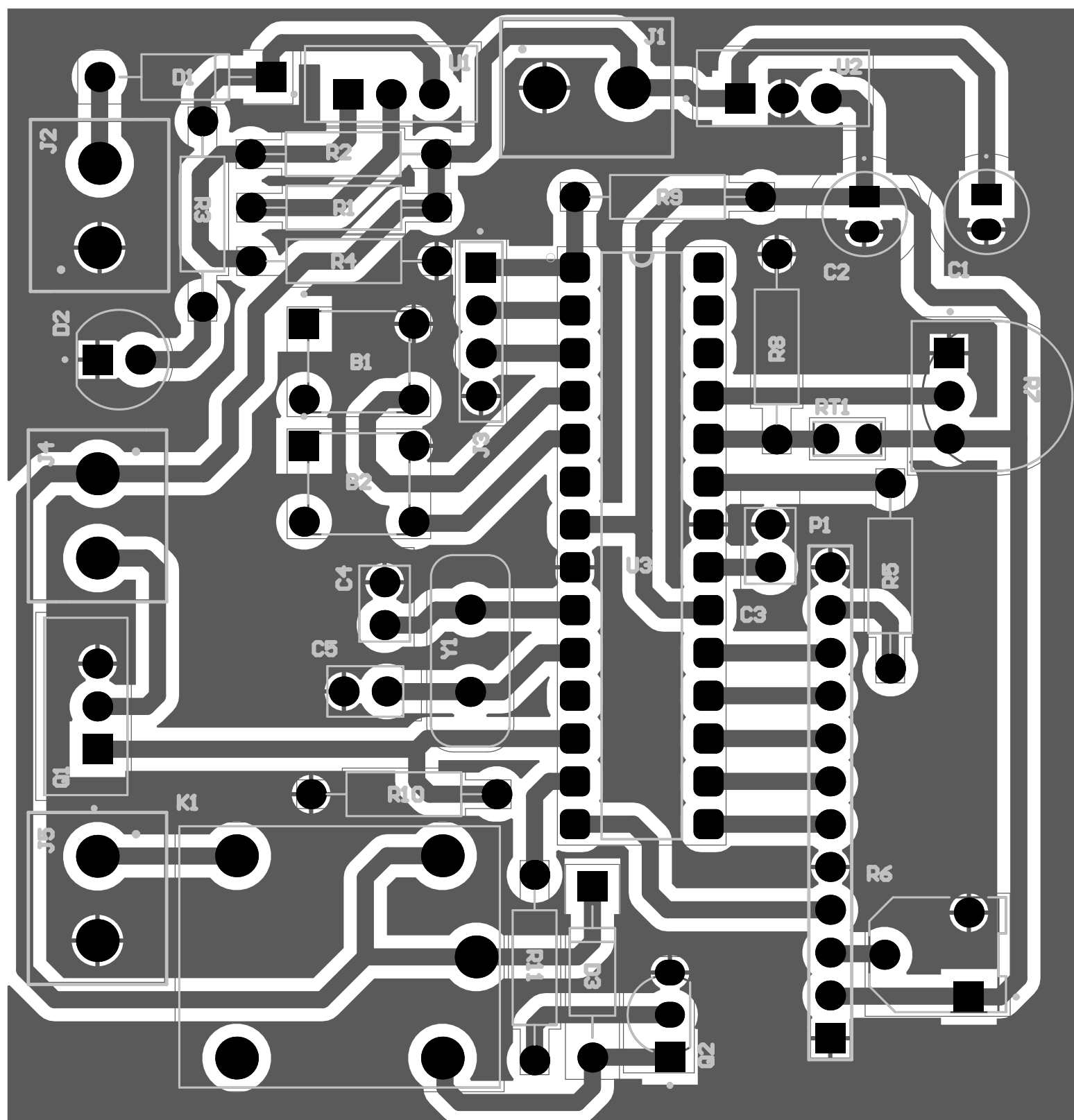


Display



Switching UNIT





Comment	Description	Designator	Footprint	LibRef	Quantity
Push button		B1, B2	SW_TSD2-66-95-BK-260-LCB-D	Push button	2
100uF	FS-A	C1	CAPPRD500W50D500H1100	Electrolytic capacitor	1
10uF	FS-A	C2	CAPPRD500W50D500H1100	Electrolytic capacitor	1
100nF	2200 pF A±10% 250V Ceramic Capacitor X7R Radial	C3	CAPRBS00W50L450T3 00H550	Ceramic capacitor	1
22pF	2200 pF A±10% 250V Ceramic Capacitor X7R Radial	C4, C5	CAPRBS00W50L450T3 00H550	Ceramic capacitor	2
1N4007	Diode Switching 1KV 1A 2-Pin DQ-41	D1, D3	DIOAD106W80L520D270	1N4007	2
LOBRS0000C1	LED, Orange, Through Hole, T-1 3/4 (5mm), 30 mA, 2.1 V, 635 nm	D2	LEDRD254W570500H1070	LED	1
TBlock 2	2 Position Wire to Board Terminal Block Horizontal with Board 0.197_5.00mm_Through Hole	J1, J2, J4, J5	691111710002	Terminal Block - 2Pins	4
Header 4	4 Position Header Connector Through Hole	J3	SULLINS_PPTD041LFB N-RC	Female header - 4Pins	1
JOC-3F-1C-24VDC	Miniature PCB Relay 24VDC, 10A 250VAC, 15A 125VAC, 10A 250VAC	K1	RELAY_JOC-3F-1C-24VDC	Relay (Standard)	1
Header 12	Header, 12-Pin	P1	HDR1X12	Header 12	1
N-Channel mosfet	N-Channel 100V 22A (TQ) 85W (TQ) Through Hole TO-220AB	Q1	TO254P1052X465X198 9-3	IRF540	1
BC547	-a href="https://pricing.snapeda.com/parts/BC337-16%20A1/Taiwan%20Semiconductor/View-part?ref=eda">Check availability -> <a >check="" a="" availability<="" href="https://pricing.snapeda.com/parts/BC337-16%20A1/Taiwan%20Semiconductor/View-part?ref=eda">->	Q2	TO92250P510H770-3	BC547B	1
0V2	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R1	RESAD1100W55L680D260	Resistor (0.25W)	1
240	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R2	RESAD1100W55L680D260	Resistor (0.25W)	1
1k	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R3	RESAD1100W55L680D260	Resistor (0.25W)	1
2k4	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R4	RESAD1100W55L680D260	Resistor (0.25W)	1
10k	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R5, R8, R9, R10, R11	RESAD1100W55L680D260	Resistor (0.25W)	5
Potentiometer	(3306F-1-105) 1 MOhms 0.2W, 1/5W PC-Pins Through Hole Trimmer Potentiometer Cermet 1 Turn Top Adjustment	R6	TRIM_3306F-1-105	Potentiometer1	1
3352T-1-254LF	RESISTOR, VARIABLE, 250K OHM, 0.5W, A±20% Track Resistance:250kohm; No. of Turns:1; Resistance Tolerance:A± 20%; Temperature Coefficient:A± 100ppm/A°C; Power Rating:500mW; Potentiometer Mounting:Through Hole ;RoHS Compliant: Yes	R7	TRIM_3352T-1-254LF	Variable resistor	1
NXBRT15WB473FA180 20	THERMISTOR NTC 33KOHM 4050K BEAD	RT1	THERM_NXBRT15WB473FA18020	NXBRT15WB473FA180 20	1
LM317		U1	TO255P1020X450X196 8-3	LM317	1
LM7805		U2	TO255P1020X450X196 8-3	LM78_	1
ATMEGA328P-PU	Atmega Series 20 Mhz 32 KB Flash 2 KB SRAM 8-Bit Microcontroller - DIP-28	U3	DIP794H44P25L2967 H457C28B	ATMEGA328P-PU	1
16MHz	CRYSTAL 17H	Y1	XTAL_EC5-160-20-4X	Crystal oscillator	1