

## Charge Distributor Bill of Materials

Date:	4/24/2020 6:31:38 PM				
Tool:	Eeschema (5.1.5)-3				
Component Count:	29				
Ref	Value	Footprint	Datasheet	Manufacturer	Vendor
C1	4.7uF	Capacitor_SMD:C_0201_0603Metric	~		
C2	4.7uF	Capacitor_SMD:C_0201_0603Metric	~		
GREEN1	POWER	LED_SMD:LED-APA102-2020	<a href="https://www.vishay.com/docs/83009/tlhg4900.pdf">https://www.vishay.com/docs/83009/tlhg4900.pdf</a>		
J1-5v1	Barrel_Jack	Connector_BarrelJack:BarrelJack_CUI_PJ-036AH-SMT_Horizontal	~		
J3-Li-Ionout1	Conn_01x02	Connector_PinHeader_1.00mm:PinHeader_1x02_P1.00mm_Horizontal	~		
J4-NIMhout1	Conn_01x02	Connector_PinHeader_1.00mm:PinHeader_1x02_P1.00mm_Horizontal	~		
J5-12V1	Barrel_Jack	Connector_BarrelJack:BarrelJack_CUI_PJ-036AH-SMT_Horizontal	~		
J6	SW-buttons	Connector:FanPinHeader_1x03_P2.54mm_Vertical	~		
J7	rotary-encoder	Connector_PinHeader_1.00mm:PinHeader_1x05_P1.00mm_Horizontal	~		
Q1	2N2219	Package_TO_SOT_THT:TO-39-3	<a href="http://www.onsemi.com/pub_link/Collateral/2N2219-D.PDF">http://www.onsemi.com/pub_link/Collateral/2N2219-D.PDF</a>		
Q2	2N2219	Package_TO_SOT_THT:TO-39-3	<a href="http://www.onsemi.com/pub_link/Collateral/2N2219-D.PDF">http://www.onsemi.com/pub_link/Collateral/2N2219-D.PDF</a>		
Q3	2N3904	Package_TO_SOT_THT:TO-92_Inline	<a href="https://www.fairchildsemi.com/datasheets/2N/2N3904.pdf">https://www.fairchildsemi.com/datasheets/2N/2N3904.pdf</a>		
Q4	2N3904	Package_TO_SOT_THT:TO-92_Inline	<a href="https://www.fairchildsemi.com/datasheets/2N/2N3904.pdf">https://www.fairchildsemi.com/datasheets/2N/2N3904.pdf</a>		
Q5	2N3055	Package_TO_SOT_THT:TO-3	<a href="http://www.onsemi.com/pub_link/Collateral/2N3055-D.PDF">http://www.onsemi.com/pub_link/Collateral/2N3055-D.PDF</a>		
R1	1k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R2	3.9k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R3	8.2k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R4	15k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R5	30k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R6	68k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R7	1k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R8	1k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R9	1k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R10	1k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R11	500	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
R12	66	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~		
RED1	NTE3019 Red Diode	Diode_THT:D_5KPW_P12.70mm_Horizontal	<a href="https://www.alliedelec.com/m/d/6355b8aba0b01578df0bb7b871ceefd7.pdf">https://www.alliedelec.com/m/d/6355b8aba0b01578df0bb7b871ceefd7.pdf</a>		
U1	MCP73831-2-OT	Package_TO_SOT_SMD:SOT-23-5	<a href="http://ww1.microchip.com/downloads/en/DeviceDoc/20001984g.pdf">http://ww1.microchip.com/downloads/en/DeviceDoc/20001984g.pdf</a>		
U2	LM741	Package_DIP:DIP-8_W7.62mm_Socket	<a href="http://www.ti.com/lit/ds/symlink/lm741.pdf">http://www.ti.com/lit/ds/symlink/lm741.pdf</a>		