

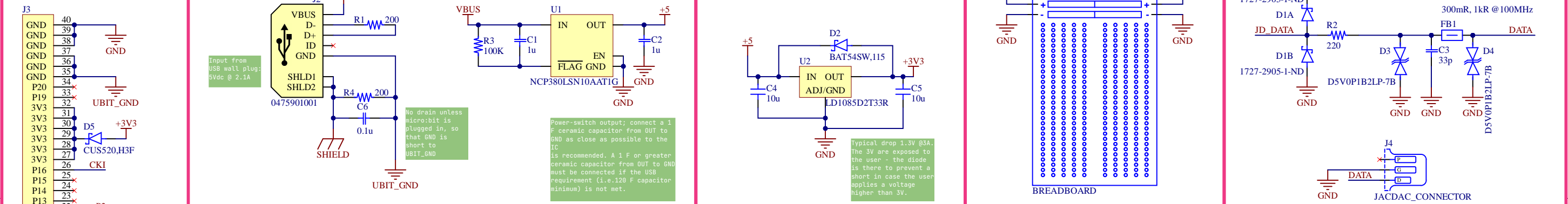
Connector

USB POWER

Power Reg

Breadboard

JACDAC



LED Left Bank (30)

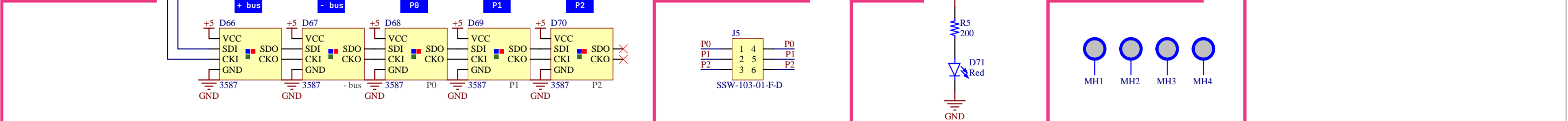
LED Right Bank (30)

Other LEDs (5)

Exposed Pins

Status

Mounting holes



Designator	Comment	Description	Manufacturer 1	Manufacturer Lifecycle 1	Manufacturer Part Number 1	Quantity	Supplier Order Qty 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Currency 1
C1, C2	1u	Surface Mount Ceramic Multilayer Capacitor 1uF - 20% to 80% Y5V 25V 0805 Paper T/R	Yageo	Volume Production	CC0805ZRY5V8BB105	2	2	311-1358-1-ND	0.14	USD
C3	33p	Cap Ceramic 33pF 50V COG 5% SMD 0805 125C Paper T/R	Yageo	Volume Production	CC0805JRNPO9BN330	1	1	311-1105-1-ND	0.11	USD
C4, C5	10u	Cap Ceramic 10uF 10Vdc X5R 10% SMD 0805 85°C Paper T/R				2		13-CC0805KPX5R6BB106CT-ND		
C6	0.1u	CAP CER 0.1UF 50V X7R 0603	Yageo	Volume Production	CC0603KPX7R9BB104	1	1	311-3567-6-ND	0.1	USD
D1	1727-2905-1-ND	Rectifier Diode Schottky 0.2A 5ns Automotive 3-Pin SC-70 T/R	Philips	Volume Production	BAT54SW,115	1	1	1727-2905-1-ND	0.23	USD
D2	BAT54SW,115	Rectifier Diode Schottky 0.2A 5ns Automotive 3-Pin SC-70 T/R	Philips	Volume Production	BAT54SW,115	1	1	1727-2905-1-ND	0.23	USD
D3, D4	D5V0P1B2LP-7B	TVS DIODE 5.5V 13V DFN1006-2	Diodes	Volume Production	D5V0P1B2LP-7B	2	2	D5V0P1B2LP-7BDICT-ND	0.28	USD
D5	CUS520,H3F	Diode Small Signal Schottky Si 0.2A 2-Pin USC T/R	Toshiba	Volume Production	CUS520,H3F	1	1	CUS520H3FCT-ND	0.22	USD
D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70	3587	DotStar Micro LEDs (APA102-2020)-Smart SMD RGB LED - 100 pack	Adafruit Industries	Unknown	3587	65	65	1528-2392-ND	29.95	USD
D71	Red	WURTH ELEKTRONIK - 150060RS75000 - LED, Red, 625 nm, 2 V, 30 mA, 250 mcd RoHS Compliant: Yes (150060RS75000)	Wurth Electronics	Volume Production	150060RS75000	1	1	732-4978-1-ND	0.14	USD
FB1	300mR, 1kR @100MHz	Ferrite Beads Multi-Layer Chip Bead 1KOhm 25% 100MHz 600mA 0603 T/R	Wurth Electronics	Volume Production	742792662	1	1	732-4670-1-ND	0.17	USD
J1	BREADBOARD					1				
J2	0475901001	USB - micro AB Receptacle Connector 5 Position Surface Mount, Right Angle, Horizontal	Molex	Volume Production	47590-1001	1	1	WM14336CT-ND	0.97	USD
J3	micro:bit edge connector	3887	Adafruit Industries	Unknown	3887	1	1	1528-2644-ND	2.95	USD
J4	JACDAC_CONNECTOR					1				
J5	SSW-103-01-F-D	SAMTEC - SSW-103-01-F-D - CONNECTOR, RECEPTACLE, 6 CONTACTS, 2 ROWS, 2.54 MM	Samtec	Volume Production	SSW-103-01-F-D	1	1	SAM10016-ND	1.42	USD
R1, R4, R5	200	RES SMD 200 OHM 0.5% 1/8W 0805	Yageo	Volume Production	RT0805DRE07200RL	3	3	311-2816-1-ND	0.12	USD
R2	220	Res General Purpose Thick Film 0805 220 Ohm 5% 1/8W ±100ppm/°C Molded SMD Paper T/R	Yageo	Volume Production	RC0805JR-07220RL	1	1	311-220ARCT-ND	0.1	USD
R3	100K	Res Thick Film 0805 100K Ohm 5% 1/8W 100ppm/°C Molded SMD SMD Paper T/R	Yageo	Volume Production	RC0805JR-07100KL	1	1	311-100KARCT-ND	0.1	USD
U1	NCP380LSN10AAT1G	REEL / OVER CURRENT PROTECTION	ON Semiconductor	Obsolete	NCP380LSN10AAT1G	1	1	NCP380LSN10AAT1GOSCT-ND	0.76	USD
U2	LD1085D2T33R	Fixed LDO Voltage Regulator, 6.3V to 30V, 1.3V Dropout, 3.3Vout, 3Aout, TO-263-3	STMicroelectronics	Volume Production	LD1085D2T33R	1	1	497-1222-6-ND	1.72	USD