Comment	Description	Designator	Footprint	LibRef	Quantity
4.7uF	SURFACE MOUNT CAPACITOR 12 06	C1, C10	1206Cap	CAP1206	2
10uF	SURFACE MOUNT CAPACITOR 12 06	C2, C11	1206Cap	CAP1206	2
1uF	SURFACE MOUNT CAPACITOR 0.048 X 0.079 INCHES	C3, C4, C5, C6	0805	CAP0805	4
100nF	SURFACE MOUNT CAPACITOR 0.048 X 0.079 INCHES	C7, C8, C9	0805	CAP0805	3
1N5408	Power Diode	D1, D2	1N540x	Diode-1N5408	2
BladeFuse	Fuse Block 30A 500V 1 Circuit Blade Through Hole	F1_AH1, F1_AH2, F1_AH3, F1_CH1, F1_CH2, F1_CH3, F1_CH4, F1_CH5, F1_CH6, F1_CH7, F1_CH8, F1_CH9, F1_CH10, F1_CH11, F1_CH12, F1_CH13, F1_CH14, F1_CH15, F1_CH16	FUSE_3557-2	BladeFuse-3557	19
5A	Fuse Block 30A 500V 1 Circuit Blade Through Hole	F2	FUSE_3557-2	BladeFuse-3557	1
IRFS7530TR	RoHS Compliant | Improved Gate, Avalanche and Dynamic dV/dt Ruggedness | Fully Characterized Capacitance and Avalanche SOA | Enhanced body diode dV/dt and dI/dt Capability	FET1, FET2	IRFS7530-TO127P-7N	FET-IRFS7530TRL7PP	2
INA226AIDGSR	INA226AIDGSR, 36V, 16-bit, ultra-precise I2c output current/voltage/power monitor w/alert 10-VSSOP -40 to 125	INA1	VSSOP-10	Chip-INA226	1
TLP621		ISO1, ISO2	TLP621-1	ISOLATOR-OPTO-TLP621-1	2
ISO1540		ISO3	SOIC-8	ISOLATOR-I2C-ISO1540	1
DCDC-B1209S		ISO4	B1209S	ISOLATOR-DCDC-B1209S	1
12V Power		KF1	CONNECTOR-KF129-7.62-2P	CONNECTOR-KF129-7.62-2P	1
Estop		KF2	CONNECTOR-KF129-7.62-2P	CONNECTOR-KF129-7.62-2P	1
4.7uH	SMD Power Inductor 7.5*7.5*4.5 mm CDRH74R	L1	CDRH74R	Inductor-CDRH74R	1
Power		LED1_AH1, LED1_AH2, LED1_AH3, LED1_CH1, LED1_CH2, LED1_CH3, LED1_CH4, LED1_CH5, LED1_CH6, LED1_CH7, LED1_CH8, LED1_CH9, LED1_CH10, LED1_CH11, LED1_CH12, LED1_CH13, LED1_CH14, LED1_CH15, LED1_CH16	0805LED	MY-LED	19
+5V		LED2	0805LED	MY-LED	1
IO-link		LED3	0805LED	MY-LED	1
IO-link-Female	M-12 connector 5pin	M1	M12 5pin Female	CONNECTOR-M12-5Pin	1
33Ω		R1, R3	0805	Resistor-0805	2
1M		R2, R4	0805	Resistor-0805	2
1Ω		R5, R6, R17, R14	0805	Resistor-0805	4
10k		R7_AH1, R7_AH2, R7_AH3, R7_CH1, R7_CH2, R7_CH3, R7_CH4, R7_CH5, R7_CH6, R7_CH7, R7_CH8, R7_CH9, R7_CH10, R7_CH11, R7_CH12, R7_CH13, R7_CH14, R7_CH15, R7_CH16, R16	0805	Resistor-0805	20
4.7k		R8, R9, R10, R11	0805	Resistor-0805	4
1k		R13, R15	0805	Resistor-0805	2
TC2117	TC2117, 800mA Fixed Low Dropout Positive Regulator	REG1	SOT223	REGULATOR-TC2117	1
SPX1117	SPX1117, 800mA Low Dropout Voltage Regulator	REGP1	SOT223	REGULATOR-SPX1117	1
1m		S1	LRMAP3920C-R001FT	Shunt-LRMAP3920C	1
F103C8T6	Bluepill stm32 F103C8T6	STM1	MODULE-F103C8T6-Bluepill	MCU-stm32-bluepill-f103C8T6_allinOne	1
Power ON		SW1	MTS-202	Switch-mts-202-6p2t	1
Switch-DS08	2.54mm DIP Switch	SW2	DS-08	Switch-DS08	1
Gate VCC		T1	TestpinSMD	testPointSMD	1
PGND		T2	TestpinSMD	testPointSMD	1
P5V		T3	TestpinSMD	testPointSMD	1
3.3V		T4	TestpinSMD	testPointSMD	1
SGND		T5, T7	TestpinSMD	testPointSMD	2
+5V		T6	TestpinSMD	testPointSMD	1
Battery		XT1	AMASS_XT60PW-M20-SHORT	CONNECTOR-XT60-POWER	1
XT60-M		XT2_AH1, XT2_AH2, XT2_AH3, XT2_CH1, XT2_CH2, XT2_CH3, XT2_CH4, XT2_CH5, XT2_CH6, XT2_CH7, XT2_CH8, XT2_CH9, XT2_CH10, XT2_CH11, XT2_CH12, XT2_CH13, XT2_CH14, XT2_CH15, XT2_CH16	XT60-M	CONNECTOR-XT60-POWER	19