

Reference	Value	Footprint	Qty	Description
BZ1	Buzzer	Buzzer_Beeper:MagneticBuzzer_ProSignal_ABI-009-RC	1	Buzzer, polarized
C1	2.2nF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	1	Unpolarized capacitor
C2,C3	100nF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	2	Unpolarized capacitor
C4,C10	10nF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	2	Unpolarized capacitor
C5,C8,C9	1uF	Capacitor_SMD:C_1206_3216Metric	3	Unpolarized capacitor
C6,C7	470uF	Capacitor_THT:CP_Radial_D8.0mm_P3.50mm	2	Polarized capacitor
C11,C12	22pF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	2	Unpolarized capacitor
D1	MBRD1045	Package_TO_SOT_SMD:TO-252-2	1	Schottky diode, anode on pins 1 and 3
D2	LED_Power	LED_THT:LED_D3.0mm	1	Light emitting diode
D3	LED_Active	LED_THT:LED_D3.0mm	1	Light emitting diode
J1	Power	CustomConnectors:Battery_3V7_Cable_solding_connctor	1	Generic connector, single row, 01x02, script generated
J2	SERVOA	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical	1	Generic connector, single row, 01x03, script generated
J3	SERVOB	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical	1	Generic connector, single row, 01x03, script generated
J4	SERVOC	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical	1	Generic connector, single row, 01x03, script generated
J5	SERVOD	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical	1	Generic connector, single row, 01x03, script generated
J6	BMP0	Connector_JST:JST_XH_B4B-XH-A_1x04_P2.50mm_Vertical	1	Generic connector, single row, 01x04, script generated
J7	BMP1	Connector_JST:JST_XH_B4B-XH-A_1x04_P2.50mm_Vertical	1	Generic connector, single row, 01x04, script generated
J8	UART	Connector_JST:JST_XH_B4B-XH-A_1x04_P2.50mm_Vertical	1	Generic connector, single row, 01x04, script generated
J9	Prog	Connector_PinHeader_2.54mm:PinHeader_1x08_P2.54mm_Vertical	1	Generic connector, single row, 01x08, script generated
L1	47uH	Inductor_SMD:L_Bourns_SRP1245A	1	Inductor with ferrite core, small symbol
Q1	IRLR8726	Package_TO_SOT_SMD:TO-252-2	1	35A Id, 60V Vds, N-Channel Power MOSFET, 18mOhm Ron, 19.3nC Qg (typ), TO252
R1	5.1k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	Resistor
R2,R3,R7,R8	1.8k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	4	Resistor
R4,R5,R6	10k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	3	Resistor
RV1	2k	Potentiometer_THT:Potentiometer_Bourns_3296W_Vertical	1	Potentiometer
U1	LGT8F328P	Package_QFP:LQFP-32_7x7mm_P0.8mm	1	
U2	MPU6050	Sensor_Motion:InvenSense_QFN-24_4x4mm_P0.5mm	1	InvenSense 6-Axis Motion Sensor, Gyroscope, Accelerometer, I2C
U3	W25Q64FV	Package_DIP:DIP-8_W7.62mm_Socket_LongPads	1	128Mb Serial Flash Memory, Standard/Dual/Quad SPI, SOIC-8
U4	XL6019	Package_TO_SOT_SMD:TO-263-5_TabPin3	1	
U5	LD2981_SOT89	Package_TO_SOT_SMD:SOT-89-3	1	Positive 100mA 30V Linear Regulator, Fixed Output 3.3V, SOT-89
Y1	32 MHz	Crystal:Crystal_HC49-4H_Vertical	1	Two pin crystal