

Comment	Description	Designator	Footprint	LibRef	Quantity
10uF	CAP CER 10uF XSR	C1, C21, C42	CAPC2012L	CC_10uF_0805_16V	3
27pF	CAP CER 27pF NPO	C2, C25	CAPC1608L	CC_27pF_0603	2
1uF	CAP CER 1uF Y5V -20	C3, C16, C29, C30	CAPC1608L	CC_1uF_0603	4
4.7uF	CAP CER 4.7uF XSR	C4, C15, C17	CAPC1608N	CC_4.7uF_0603	3
100nF	CAP CER 100nF X7R	C5, C6, C7, C8, C9, C	CAPC1608L	CC_100nF_0603	27
10nF	CAP CER 10nF X7R	C19	CAPC1608L	CC_10nF_0603	1
22uF	CAP CER 22uF Y5V -2	C26, C27	CAPC3216L	CC_22uF_1206	2
V5-30BQ015-M3/9AT	DIODE, SCHOTTKY	D1	SMC	DS_V5-30BQ015-M3	1
SS14-E3/SAT	DIODE, SCHOTTKY	D2, D3	DIOM4227X23N	DS_SS14E3	2
Red	LED Red 250mcd 060	DL1	WL-SMCW0603	DL_150060RS75000	1
Green	LED Green 430mcd 0	DL2	WL-SMCW0603	DL_150060GS75000	1
2A	Fuse 2.0A Very Fast	F1	RESC3216N	F5_Fuse_2.0A	1
0.25A	Fuse 0.25A Very Fast	F2	RESC3216N	F5_Fuse_0.25A	1
J5_USB_MICRO_B	CONN USB MICRO B	H1	FCT_USB_101181944	J5_USB_MICRO_B_S	1
Header 5X2 Vert	IDC Header, 2.54mm	H2	IDC2.54-V10D	JA_HDR_IDC_5X2_Ve	1
Battery_HEADER_3pin	3Pin Header 2.54mm spacing Digkey #WM22663-ND	H3	BATT_HEADER_3POS	Battery_HEADER_3pin	1
LED_Strip	CONN HEADER 3POS	H4	MOLEX_KK_3_HDR	LED_Strip_Header	1
1A max, Idc 0.3R,	Ferrite Bead, Rdc 0.3	L1, L3	INDC3216L	IN_Ferrite-Bead	2
IND 5.2uH 6A	FIXED IND 5.2uH 6A	L2	INDUCTOR5u2	CDRH104RNP-5R2NC	1
CH1	Header, 2-Pin	P2	HDR1X2	JA_PIN_Header 2	1
CH2	Header, 2-Pin	P3	HDR1X2	JA_PIN_Header 2	1
CH3	Header, 2-Pin	P4	HDR1X2	JA_PIN_Header 2	1
GPIO_Header	Header, 6-Pin	P5	HDR1X6	JA_PIN_Header 6	1
CH4	Header, 2-Pin	P6	HDR1X2	JA_PIN_Header 2	1
Joy_sel	Header, 2-Pin	P7	HDR1X2	JA_PIN_Header 2	1
Servo	Header, 3-Pin	P8	HDR1X3	JA_PIN_Header 3	1
Piezo Buzzer	TDK - PS1240P02BT	P9	BUZZER	Piezo Buzzer	1
LS1	Header, 3-Pin	P11	HDR1X3	JA_PIN_Header 3	1
LS2	Header, 3-Pin	P12	HDR1X3	JA_PIN_Header 3	1
Spare	Header, 2-Pin	P13	HDR1X2	JA_PIN_Header 2	1
BC817W	NPN GP Bipolar Trans	Q1	SOT323_M	TB_BC817W	1
SSM3J328R,LF	MOSFET P-CH 20V 6	Q2	SOT23_L	TM_SSM3J328R	1
27K	RES 27K OHM 1/10W	R1	RESC1608L	RS_27K	1
47K	RES 47.0K OHM 1/10	R2	RESC1608N	RS_47K	1
150K	RES 150K OHM 1/10W	R3	RESC1608L	RS_150K	1
100K	RES 100K OHM 1/10W	R4, R31	RESC1608L	RS_100K	2
3K	RES 3K OHM 1/10W	R5	RESC1608L	RS_3K	1
2K	RES 2K OHM 1/10W	R6	RESC1608L	RS_2K	1
27R	RES 27 OHM 1/10W	R8, R24	RESC1608L	RS_27R	2
2K2	RES 2.2K OHM 1/10W	R18, R19	RESC1608L	RS_2K2	2
1K	RES 1.0K OHM 1/10W	R21, R22	RESC1608L	RS_1K	2
1R	RES 1R OHM 1/4W 5	R23	RESC3216L	RT_1R	1
10K	RES 10.0K OHM 1/10	R27, R34	RESC1608L	RS_10K	2
24K	RES 24K OHM 1/10W	R29	RESC1608L	RS_24K	1
nRST	Panasonic 6 x 3.5mm	S1	EVQPNF05M	WS_EVQPNF05M	1
SLEEP	Panasonic 6 x 3.5mm	S2	EVQPNF05M	WS_EVQPNF05M	1
ATSAM458BA-ANR	IC MCU 32BIT 512KB	U1	LQFP64_L	SE_ATSAM45168A-M	1
CAT6219-330TDG T3	IC REG LIN 3.3V 500	U2, U4	SOT95P280X145-5N	SV_CAT6219-330TDK	2
ADP2302ARDZ-5.0 BU	IC REG BUCK 5V 2A 4	U3	RD_8_1	ADP2302ARDZ-5.0-R	1
MPU-9250	9 axis IMU	U5	QUAD24	MPU-9250	1
SN74LVCL1T45	1.8V - 5V level conve	U7, U8, U9	SOT23-6_N	SN74LVCL1T45	3
nRF24 SMD	nRF24 SMD Module	U10	NRF24	NRF24	1
Joystick 10k with Sw	JOYSTICK 10K OHM	VR1	Joystick_Sw	Joystick 10k with Sw	1
12MHz	CRYSTAL 12MHZ 18P	Y1	6.0K3.5-4	XT_CRYSTAL_12MHz	1