









Comment	Description	Designator	Footprint	LibRef	Quantity
ATXMEGA16A4-AU			TQFP80P1200X120 0X120-44N	ATXMEGA16A4-AU	
10uF	CAP 10uF 10% 10V X5R 0805	C1	0805	CP_10uF 0805	
100nF	CAP CER .10UF 50V X5R 0603	C2, C3, C4, C5, C6, C8, C9, C13	0603	CP_100nF 0603	
CP_TANT_33uF	CAP TANT 33UF 20V 10% SMD	C7, C10	6032	CP_TANT_33UF_2 0V	
10nF	CAP CER 10000PF 100V X7R 0603	C11, C12	0603	CP_10nF 0603	
				TANT100uF_16V_7	
100uF 16V	SM Tantalum Cap Polarized Capacitor	C14, C17	TANT7343	343	
Cap Pol2	(Axial)	C15, C16, C18, C19	POLAR0.8	Cap Pol2 TANT1uF_16V_321	
1uF 16V	SM Tantalum Cap	C_ESD	TANT3216	6	
5A/ 40V	DIODE SCHOTTKY 5A 40V SMC Silicon AF Schottky	D1, D2, D3, D4, D5, D6, D7, D8	DIODE_SMC	DS_SSC54-E3/57T	
Diode BAS70	Diode for High- Speed Switching	D9, D10	SOT95P240-3N	Diode BAS70	
Super Blue	LED 0805 Super Blue	D_Charged, D_Charging	LED0805	LED0805 S BLUE	
	DIODE ULTRA				
ES2D	FAST 2A 200V SMB	D_Charge_Protection	DIODE_SMB	ES2D-E3/ 52T	
Comms	Header, IDC 10-Pin 5.08mm Pluggable	H1	918510x323	Header 10	
Battery	Terminal Header	H?	TMHDR2	AVR ISP Header 2	
Twin Motor Connector	5.08mm Pluggable Teminal Header	H?	TMHDR4	AVR ISP Header 4	
TSOP38236		IR Module	TSOP38236 IR Receiver	TSOP38236	
IN_FERRITE CHIP 120 OHM 800mA 0805	FERRITE CHIP 120 OHM 800mA 0805	L1	0805	IN_FERRITE CHIP 120 OHM 800mA 0805	
Inductor	Inductor	L2, L3, L4, L5	INDC1005AL	Inductor	
MC33886VW		LEFT_DRIVER, RIGHT_DRIVER	SOP127P1420X340 _HS-20N	MC33886VW	
MAX3001EEUP+		MOTOR_LEVEL_S HIFTER	TSOP65P640X110- 20N	MAX3001EEUP+	
Header 2	Header, 2-Pin	P2, P12	HDR1X2	Header 2	
Header 11	Header, 11-Pin	P4, P5, P6, P7	HDR1X11	Header 11	
Header 3X2	Header, 3-Pin, Dual row	P11	HDR2X3	Header 3X2	
	RES 10.0K OHM 1/10W 1%0603				
10k	SMD	R1, R2, R3, R6	0603	RS_10k 0603	
5R1	0603 Resistor	R4	R0603	5R1_R0603	
100R	0603 Resistor RES 330 OHM	R5, R_ESD	R0603	100R_R0603	
330R	1/10W 1%0603 SMD	R7	0603	RS_330R 0603	
2K	0603 Resistor	R8	R0603	2K_R0603	
0R	0603 Resistor	R9	R0603	0R_R0603	
FSM2JSMA	DPST SMD Switch	S1	FSM2JSMA	SW FSM2JSMA	
	TEST POINT PC	-			
BLACK	MINI .040"D BLACK	TP1	testpoint-small	TP5001	
YELLOW	MINI .040"D YELLOW	TP10, TP11, TP12, TP13	testpoint-small	TP5004	
	Microcontroller Supervisory Circuit with Open Drain Output, 3-Pin SOT- 23, Industrial Temperature, Tape				
MCP130T-300I/TT	and Reel	U1	SOT-23-TT3_N	MCP130T-300I/TT	
TL2575	1	VR_3.3, VR_5	1	tl2575	