Reference	Value	Footprint	Datasheet Description	Distributer	Part Number	Distributor	Dist PN
R13		Resistors SMD:R 1206 HandSoldering	RES 51 5% 1/4W SMD 1206	DigiKey	311-51ERCT-ND	Distributor	Dist. 114
R14		Resistors SMD:R 1206 HandSoldering	RES 51 5% 1/4W SMD 1206	DigiKey	311-51ERCT-ND		
R4		Resistors SMD:R 1206 HandSoldering	RES 510 5% 1/4W SMD 1206	DigiKey	311-510ERCT-ND		
C10	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C11	0.1uF	Capacitors_SMD:C_1210_HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C12	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C14	0.1uF	Capacitors_SMD:C_1210_HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C15	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C16	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND	1	
C17	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C18	0.1uF	Capacitors_SMD:C_1210_HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C19	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C2	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C20	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C21	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C22	0.1uF	Capacitors_SMD:C_1210_HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C23	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND	1	
C4	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		
C7	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND	†	
C8	0.1uF	Capacitors SMD:C 1210 HandSoldering	CAP Ceramic 0.1uF 50V 10% X7R 1210	DigiKey	1276-3318-1-ND		1
R1	1.00K	Resistors_SMD:R_1206_HandSoldering	RES 1.00K 1% 1/4W SMD 1206	DigiKey	RMCF1206FT1K00CT-ND		
R2	1.00K	Resistors SMD:R 1206 HandSoldering	RES 1.00K 1% 1/4W SMD 1206	DigiKey	RMCF1200FT1K00CT-ND	-	
R6	1.00K	Resistors_SMD:R_1206_HandSoldering	RES 1.00K 1% 1/4W SMD 1206	DigiKey	RMCF1206FT1K00CT-ND	-	
R11	10K	Resistors SMD:R 1206 HandSoldering	RES 10.0K 1% 1/4W SMD 1206	DigiKey	RMCF1206FT10K0CT-ND	-	
R8	10K	Resistors SMD:R 1206 HandSoldering	RES 10.0K 1% 1/4W SMD 1206	DigiKey	RMCF1206FT10K0CT-ND		
R9	10K	Resistors SMD:R 1206 HandSoldering	RES 10.0K 1% 1/4W SMD 1206	DigiKey	RMCF1206FT10K0CT-ND	-	
C1	10uF	Capacitors Tantalum SMD:TantalC SizeE EIA-7360 HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND		
C13	10uF	Capacitors Tantalum SMD:TantalC_SizeE_EIA-7360 HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND		
C24	10uF	Capacitors Tantalum SMD:TantalC_SizeE_EIA-7360 HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND		
C25	10uF	Capacitors Tantalum SMD:TantalC_SizeE_EIA-7360_HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND 718-1022-1-ND		
C5	10uF	Capacitors Tantalum SMD:TantalC_SizeE_EIA-7360 HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND	-	
C6	10uF	Capacitors_Tantalum_SMD:TantalC_SizeE_EIA-7360_HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND		
C9	10uF	Capacitors Tantalum SMD:TantalC_SizeE_EIA-7360 HandSoldering	CAP Tant 10uF 50V 10% 2917	DigiKey	718-1022-1-ND		
C3	220uF	Capacitors SMD:c elec 10x10	CAP Alum 220uF 20% 50V smd	DigiKey	493-2228-1-ND		493-228-1-ND
R10	47K	Resistors SMD:R 1206 HandSoldering	Resistor 47K 5% 1/4W SMD 1206	DigiKey	311-47KERCT-ND		433-220-1-110
R12	47K	Resistors SMD:R 1206 HandSoldering	Resistor 47K 5% 1/4W SMD 1206	DigiKey	311-47KERCT-ND		
U3		PiMib:ADAFRUIT TXB0104	TXB0104 Level Shifter	Adafruit	1875		
U5		PiMib:ADAFRUIT TXB0104	TXB0104 Level Shifter	Adafruit	1875		
Q4	BCV62	PCBFootprints:SOT-143_Handsoldering	Trans, 2PNP, 30V, 0.1A, SOT143	DigiKey	BCV62BE6327HTSA1CT-ND	1	-
Q5	BCV62	PCBFootprints:SOT-143_Italiasoldering	Trans, 2PNP, 30V, 0.1A, SOT143	DigiKey	BCV62BE6327HTSA1CT-ND		
P1	CONN 01X02	Connect:ANDERSON POWERPOLE 1X2 RA WINGS	118113, 21 141 , 300, 0.1A, 301143	Digitey	BCV02BE03271113A1C1-ND	-	ł
P4	CONN_01X03	Connectors Molex:Pin Header Keyed 1x03					
P5	CONN 01X03	Connectors Molex:Pin_Header_Keyed_1x03				-	
P6	CONN 01X03	Connectors_Molex.Fin_Header_Keyed_1x03 Connectors_Molex:Pin_Header_Keyed_1x03					-
P7	CONN 01X03	Connectors Molex:Pin_Header_Keyed_1x03					
P8	CONN 01X03	Connectors Molex:Pin_Header_Keyed_1x03				1	
P9	CONN 01X03	Connectors Molex:Pin_Header_Keyed_1x03				 	†
P14	CONN 01X04	Pin Headers:Pin Header Straight 1x04					
P12	CONN 02X05	Connect:he10-10d	Conn Header 10pos, KEYED, EJECTOR	DigiKey	MHS10S-ND	1	†
P13	CONN 02X05	Connect:he10-10d	Conn Header 10pos, KEYED, EJECTOR	DigiKey	MHS10S-ND		1
P10	CONN_02X07	Connect:he10-10d	Conn Header 14pos KEYED EJECTOR	DigiKey	MHS14S-ND	-	
P11	CONN 02X07	Connect:he10-14d	Conn Header 14pos KEYED EJECTOR	DigiKey	MHS14S-ND		-
D1	D D	Diodes SMD:SMB-SMC Universal Handsoldering	Diode Gen Purpose, 100V, 5A, SMC	DigiKey	S5BC-FDICT-ND	 	
Q2	DMG2305UX	PCBFootprints:SOT-23	Mosfet, P-Ch 20V, 4.2A SOT23	DigiKey	DMG2305UX-13DICT-ND	1	1
Q3	DMG2305UX	PCBFootprints:SOT-23	Mosfet, P-Ch 20V, 4.2A SOT23	DigiKey	DMG2305UX-13DICT-ND	-	
JP1	Jumper NC Dual	Pin Headers:Pin Header Straight 1x03	IVIUSIEL, F-CII 20V, 4.2A 30123	Diginey	DIVIGE3030V-13DIC1-ND		-
JP1 JP2	Jumper_NC_Dual	Pin_Headers:Pin_Header_Straight_1x03				-	-
JP2 JP3	Jumper_NC_Dual	Pin Headers:Pin Header Straight 1x03					-
JP3 JP4						-	-
JP5	Jumper_NC_Dual	Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03					
JL.D	Jumper_NC_Dual	riii_iieauei5.Piii_neauei_Stiaigiit_1XU5				1	

JP6	Jumper_NC_Dual	Pin_Headers:Pin_Header_Straight_1x03					
LED1	LED	LEDs:LED-1206					
U7	LT1129CST-3.3	PCBFootprints:SOT-223	IC Regulator, Linear, 3.3V, 700mA, SOT223-3	DigiKey	LT1128CST-3.3#PBF-ND		
U4	MAX488	Sockets_DIP:DIP-8300	MAX488, DIP-8	DigiKey	MAX488CPA+-ND		
U1	PDQ30-Q24-S5-D	PiMib:pdq30	DC/DC Converter, 5V, 30W	DigiKey	102-3891-ND		
U2	PowerBoost 1000	Socket_Strips:Socket_Strip_Straight_1x08	PowerBoost 1000 Battery Backup	Adafruit	2465		
U6	PSOC_5LP	PiMib:DIP-52_1_ELL	PSOC 5LP Prototyping Kit	DigiKey	428-3390-ND		
P2	Raspberry_Pi_+_Conn	Socket_Strips:Socket_Strip_Straight_2x20	Header, Female 40Pin,	DigiKey	952-2150-ND		
P3	Raspberry_Pi_+_Conn	Pin_Headers:Pin_Header_Straight_2x20	Conn Header Verticle 40pos 0.1inch	DigiKey	732-5310-ND		
J1	RJ12	Connect:RJ12_E	RJ-45 Conector		553-2258-ND	Digi-Key	