





Title Headers ECE Department University of Canterbury Christchurch 8041 UNIVERSITY OF CANTERBURY Drawn byHassan Alhujhoj, Abdullah NaeemRevision.\*\* Date: 4/03/2020 Time: 10:10:11 PM Sheet\* of \* New Zealand Term 1\wacky races\GIT\wacky-racers-pcb\Headers.Sch

Comment			Footprint	LibRef	Quantity
10uF	CAP CER 10UF X5R +	C1, C4, C11, C26	CAPC1608L	CC_10uF_0603	4
27nF	CAP CER 27nF X7R +		CAPC1608L	CC_27nF_0603	2
100nF		C5, C9, C10, C14, C1		CC_100nF_0603	14
22uF	CAP CER 22uF Y5V -2	C6, C7	CAPC3216L	CC_22uF_1206	2
10nF	CAP CER 10nF X7R +	C8	CAPC1608L	CC_10nF_0603	1
1uF	CAP CER 1uF Y5V -20	C12, C13, C24, C25	CAPC1608L	CC_1uF_0603	4
2.2uF	CAP CER 2.2uF X5R +		CAPC1608L	CC_2.2uF_0603	2
4.7uF	CAP CER 4.7uF X5R +	C22	CAPC1608N	CC_4.7uF_0603	1
SCHOTTKY 30V 4A	DIODE SCHOTTKY 30'	D1	SMC	MBRS330T3G	1
Dark Green	LED Dk Green 430mcc	DL1	WL-SMCW0603	DL_150060GS75000	1
Red	LED Red 250mcd 0603	DL2	WL-SMCW0603	DL_150060RS75000	1
5A	Fuse 5.0A Fast Acting	F1	RESC3216N	FS_Fuse_5.0A	1
Header 5X2 Vert	IDC Header, 2,54mm,	H1, H9	IDC2.54-V10D	JA_HDR_IDC_5X2_VE	2
2 Pin Molex KK HDR	CONN HEADER 2POS	H2, H4, H5, H7, H8	MOLEX_KK_2_HDR	JA_MOLEX_KK_2POS	5
3 Pin Molex KK Hdr	CONN HEADER 3POS	H3	MOLEX_KK_3_HDR	JA_MOLEX_KK_3POS	1
	3Pin Header 2.54mm:		BATT_HEADER_3POS	Battery_HEADER_3pi	n 1
	CONN HEADER 4POS		MOLEX_KK_4_HDR	JA_MOLEX_KK_4POS	1
	2 Position Terminal Blo		TERM_BLK_2POS	TERM_BLK_2POS	2
	CONN USB MICRO B F			JS_USB_MICRO_B_SI	. 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
SSM3J328R,LF	MOSFET P-CH 20V 6A		SOT23_L	TM_SSM3J328R	1
10R	RES 10 OHM 1/10W 5		RESC1608L	RS_10R	1
100R	RES 100 OHM 1/10W		RESC1608L	RS 100R	1
1K3	RES 1.3K OHM 1/10W	R3	RESC1608L	RS 1K3	1
27R	RES 27 OHM 1/10W 5	R4, R5	RESC1608L	RS_27R	2
10K	RES 10.0K OHM 1/10\	R6, R7, R8, R9	RESC1608L	RS_10K	4
100K	RES 100K OHM 1/10V		RESC1608L	RS_100K	2
0R	RES 0.0 OHM 1/10W		RESC1608L	RS_0R0	3
1R	RES 1R OHM 1/4W 59	R14	RESC3216L	RT_1R	1
470K	RES 27 OHM 1/10W 5	R16, R20	RESC1608L	RS_27R, RS_47R	2
270K	RES 27 OHM 1/10W 5		RESC1608L	RS_27R, RS_47R	2
0R	RES OR OHM 1/8W 59	R18	RESC3216L	RT_0R	1
EVQPNF05M	Panasonic 6 x 3.5mm		EVQPNF05M	WS_EVQPNF05M	2
TP_0603		TP8, TP9, TP12, TP13	TP_0603	TP_0603	4
nRF24 SMD		U1	NRF24	NRF24	1
	IC MCU 32BIT 512KB	U2	LQFP64_L	SE_ATSAM4S16BA-MI	. 1
	IC REG BUCK 5V 2A 8		RD_8_1	 ADP2302ARDZ-5.0-R	7 1
	IC REG LIN 3.3V 500N		SOT95P280X145-5N	SV_CAT6219-330TDG	
DRV8833	Dual H-Bridge Motor [		HTSOP16	DRV8833	2
SN74LVC1T45	1.8V - 5V level conver		SOT23-6_N	SN74LVC1T45	1
1311/46/01/43					