

Bill of Materials			Bill of Materials for PCB Document [HatBoard_Group10.PcbDoc]		
Source Data From:			HatBoard_Group10.PcbDoc		
Project:			WackyRacesHat.PrjPcb		
Variant:			None		
Creation Date:			22/06/2020 11:10 PM		
Print Date:			22-Jun-20 11:11:22 PM		
Footprint	Comment	LibRef	Designator	Description	Quantity
CAPC1608L	100nF	CC_100nF_0603	C1, C2, C5, C6, C7, C8, C13, C14, C15, C16, C17, C19, C20, C23	CAP CER 100nF X7R +-10% 50V 0603	14
CAPC3216L	22uF	CC_22uF_1206	C3, C4, C29	CAP CER 22uF Y5V -20% +80% 10V 1206	3
CAPC1608L	1uF	CC_1uF_0603	C9, C10, C11, C12	CAP CER 1uF Y5V -20% +80% 16V 0603	4
CAPC1608N	4.7uF	CC_4.7uF_0603	C18, C26	CAP CER 4.7uF X5R +-20% 10V 0603	2
CAPC1608L	10nF	CC_10nF_0603	C21, C27, C28	CAP CER 10nF X7R +-10% 50V 0603	3
CAPC1608L	10uF	CC_10uF_0603	C22	CAP CER 10UF X5R +-20% 6V3 0603	1
CAPC1608L	27pF	CC_27pF_0603	C24, C25	CAP CER 27pF NPO/COG +-5% 50V 0603	2
NICH-1	100uF/16V	CA_100uF_16V	CA1	CAP ALUM 100uF 16V SMD	1
SMC	VS-30BQ015-M3/9AT	DS_VS-30BQ015-M3	D1	DIODE, SCHOTTKY, 3A, 15V, DO-214AB / SMC	1
WL-SMCW0603	Bright Green	DL_150060VS75000	DL1	LED Bright Green 40mcd 0603 SMD	1
WL-SMCW0603	Red	DL_150060RS75000	DL2	LED Red 250mcd 0603 SMD	1
RESC3216N	5A	FS_Fuse_5.0A	F1	Fuse 5.0A Fast Acting 1206 SMD	1
IDC2.54-V10D	Header 5X2 Vert	JA_HDR_IDC_5X2_VERT	H1	IDC Header, 2.54mm, 10-Pin, Vert	1
SD-53398-0219	SMD Vert 1.25mm	JB_53398-02	H2, H4, H5, H6	Header_Vert_2Pos_1.25mm_125V@1A_SMT	4
BATT_HEADER_3POS	Battery_HEADER_3pin	Battery_HEADER_3pin	H3	3Pin Header 2.54mm spacing	1
USB/SM0.8-6H5	JS_USB_MINI_B	JS_USB_MINI_B_SMT	H7	USB 2.0, Right Angle, SMT, B Type, Receptacle, 5 Position,	1
HEADER_3POS	HEADER_3	HEADER_3	H8	3Pin Header 2.54mm spacing	1
INDUCTOR5u2	IND 5.2UH 6A	CDRH104RNP-5R2NC	L1	FIXED IND 5.2UH 6A 22 MOHM SMD	1
INDC3216L	1A max, Idc 0.3R,	IN_Ferrite-Bead	L2, L3	Ferrite Bead, Rdc 0.3R, Z100MHZ 600R, lmax 1A, SMD 1206	2
XDCR_PS1240P02BT	PS1240P02BT	PS1240P02BT	LS1	Buzzers Transducer, Externally Driven Piezo 3V 4kHz 60dB @ 3V, 10cm Through Hole PC Pins	1
SOT323_M	BC817W	TB_BC817W	Q1	NPN GP Bipolar Transistor 45V 500mA SOT323	1
RESC1608L	0R	RS_0R0	R1, R5, R6, R11, R13, R17, R19, R20	RES 0.0 OHM 1/10W 5% 0603 SMD	8
RESC1608L	200K	RS_200K	R2	RES 200K OHM 1/10W 5% 0603 SMD	1
RESC1608L	100K	RS_100K	R3, R4	RES 100K OHM 1/10W 5% 0603 SMD	2
RESC3216L	1R	RT_1R	R7	RES 1R OHM 1/4W 5% 1206 SMD	1
RESC1608L	2K2	RS_2K2	R8, R9	RES 2.2K OHM 1/10W 5% 0603 SMD	2
RESC1608L	10R	RS_10R	R10, R16	RES 10 OHM 1/10W 5% 0603 SMD	2
RESC1608L	470R	RS_470R	R12	RES 470 OHM 1/10W 5% 0603 SMD	1
RESC1608L	680R	RS_680R	R14	RES 680 OHM 1/10W 5% 0603 SMD	1
RESC1608L	1K	RS_1K	R15, R18	RES 1.0K OHM 1/10W 5% 0603 SMD	2
RESC1608L	27R	RS_27R	R21, R22	RES 27 OHM 1/10W 5% 0603 SMD	2
EVQPNF05M	EVQPNF05M	WS_EVQPNF05M	S1, S2	Panasonic 6 x 3.5mm SMD Light Touch Switch Type SMD	2
SOT23_L	BSH105,215	TM_BSH105	T1	MOSFET N-CH 20V 1.05A SOT-23	1
RD_8_1	ADP2302ARDZ-5.0 BUCK	ADP2302ARDZ-5.0-R7	U1	IC REG BUCK 5V 2A 8SOIC	1
QUAD24	MPU-9250	MPU-9250	U2	9 axis IMU	1
SOT95P280X145-5N	CAT6219-330TDGT3	SV_CAT6219-330TDGT3	U3, U8	IC REG LIN 3.3V 500MA TSOT23-5	2
LQFP64_L	ATSAM4S8BA-ANR	SE_ATSAM4S16BA-MU	U4	IC MCU 32BIT 512KB FLASH 64LQFP	1
NRF24	nRF24 SMD	NRF24	U6	nRF24 SMD Module	1
SOT23-6_N	SN74LVC1T45	SN74LVC1T45	U7	1.8V - 5V level converter	1
Joystick_Sw	Joystick 10k with Sw	Joystick 10k with Sw	VR1	JOYSTICK 10K OHM 2 AXIS TH	1
6.0X3.5-4	12MHz	XT_CRYSTAL_12MHz_18pF	Y1	CRYSTAL 12MHZ 18PF 6X3.5mm SMD	1
Approved					81
Notes					