

BOM - Raspberry Pi Zero Dinamixel Hat

#	Designator	Part Number	Description	Manufacturer	Distributor	Quantity
1	J1	61304021821	Headers & Wire Housings WR-PHD DUAL SCKT HDR 2.54mm	WE	MOUSER	1
2	J2	691137910002	Pluggable Terminal Blocks WR-TBL 7.5mmPitch 2P Wire Protector	WE	MOUSER	1
3	D1	B330B-13-F	Schottky Diodes & Rectifiers 30V 3A	Diodes Incorporated	MOUSER	1
4	C1,C2	885012209025	Multilayer Ceramic Capacitors MLCC - SMD/SMT WCAP-CSGP 2.2uF 1210 10% 25V	WE	MOUSER	2
5	C3,C9	885012207072	Multilayer Ceramic Capacitors MLCC - SMD/SMT WCAP-CSGP 0.1uF 0805 10% 25V	WE	MOUSER	2
6	C4	885012108019	Multilayer Ceramic Capacitors MLCC - SMD/SMT WCAP-CSGP 2.2uF 1206 20% 25V	WE	MOUSER	1
7	C5	885012206071	Multilayer Ceramic Capacitors MLCC - SMD/SMT WCAP-CSGP 0.1uF 0603 10% 25V	WE	MOUSER	1
8	C7,C8	885012109014	Multilayer Ceramic Capacitors MLCC - SMD/SMT WCAP-CSGP 22uF 1210 20% 25V	WE	MOUSER	2
9	C6	885012207065	Multilayer Ceramic Capacitors MLCC - SMD/SMT WCAP-CSGP 6800pF 0805 10% 25V	WE	MOUSER	1
10	U1	MAX17633BATP+	Switching Voltage Regulators 36V, 3.5A, High-Efficiency, Synchronous Step-Down DC-DC Converter	MAX	MOUSER	1
11	L1	74408942012	Fixed Inductors WE-SPC SMD 4828 1.2uH 3.20A .022Ohm	WE	MOUSER	1
12	U2	SN74LVC2G241DCTR	Buffers & Line Drivers Tri-State Dual	TI	MOUSER	1
13	U3	TXB0104PWR	Translation - Voltage Levels 4-Bit Bi-directional V-Level Translator	TI	MOUSER	1
14	J3,J4,J5,J6	22-05-7035	Headers & Wire Housings 3 CKT 2.5MM R/A HDR	Molex	MOUSER	4
15	J7,J8	SM04B-SRSS-TB	CONNECTOR, HEADER, 1MM, 4 POSITION, 1ROW	JST	NEWARK	2
16	R1,R3,R4,R8,R9,R10	ERJ-6GEYJ103V	Thick Film Resistors 0805 10Kohms 5% AEC-Q200	Panasonic	MOUSER	6
17	R5,R6,R7	ERJ-6GEYJ102V	Thick Film Resistors 0805 1Kohms 5% AEC-Q200	Panasonic	MOUSER	3
18	R2	ERJ-6GEYJ822V	Thick Film Resistors 0805 8.2Kohms 5% AEC-Q200	Panasonic	MOUSER	1
19	D2	150080VS75000	Standard LEDs - SMD WL-SMCW SMDMono TpVw Waterclr 0805 BrtGrn	WE	MOUSER	1
20	D3	150080SS75000	Standard LEDs - SMD WL-SMCW SMDMono TpVw Waterclr 0805 SprRed	WE	MOUSER	1
21	D4	150080YS75000	Standard LEDs - SMD WL-SMCW SMDMono TpVw Waterclr 0805 Yellow	WE	MOUSER	1
22	S1	450404015514	Wurth Elektronik WS-SLSU Mini Slide Switch	WE	MOUSER	1
23	S2,S3,S4	434123025826	Wurth Elektronik WS-TASV Tact Switch	WE	MOUSER	3
24	PCB	S/N	PCB Raspberry Pi Zero Dynamixel Hat	N/A	N/A	1
Optional						
25	Spacer	970120365	Standoffs & Spacers WA-SPaIE Spacer Stud M3x12mm SW 6	WE	MOUSER	4
26	Screw	97790603211	Standoffs & Spacers WA-SCRW M3x6mm	WE	MOUSER	8