

# RPi pHat Thermocouple BOM Rev 2.0

Quantity	References	Description	Manufacturer	Part Number	Vendor	Vendor Part Number
1	BZ1	BUZ, SMD, 2.7kHz, 5V, 30mA	CUI	CMI-9655S-SMT-TR	Mouser	490-CMI-9655S-SMT-TR
8	C1 C3 C4 C6 C7 C9 C10 C11	CAP, 0603, .1uF, 10%, X7R, 50V	Yageo	CC0603KRX7R9BB104	Mouser	603-CC0603KRX7R9BB104
3	C2 C5 C8	CAP, 0603, .01uF, 10%, X7R, 50V	Murata Electronics	CC0603KRX7R9BB103	Mouser	603-CC0603KRX7R9BB103
1	C12	CAP, SMD10X8, 330uF, 20%, EC, 20V	Nichicon	PCR1D331MCL1GS	Mouser	647-PCR1D331MCL1GS
2	C13 C17	CAP, 0805, 22uf, 20%, X5R, 25V	Taiyo Yuden	TMK212BBJ226MG-TT	Mouser	963-TMK212BBJ226MGTT
1	C14	CAP, 0603, 3300pF, 5%, X7R, 10V	Vishay	VJ0603Y332JXQPW1BC	Mouser	77-VJ0603Y332JXQPBC
2	C15 C16	CAP, 0805, 2.2uF, 10%, X7R, 16V	Yageo	CC0805KKX7R7BB225	Mouser	603-CC0805KKX7R7BB225
3	D1 D2 D3	TVS, SOT23, ESD TVS Protection	On Semi	NUP2105LT1G	Mouser	863-NUP2105LT1G
1	D4	DIODE, DFS, Bridge Diode, 2A, 600V	Comchip	DF206ST-G	Mouser	750-DF206ST-G
6	FB1 FB2 FB3 FB4 FB5 FB6	BEAD, 0603, .3A, 1k@100MHz	TDK	MMZ1608B102CTD25	Mouser	810-MMZ1608B102CTD25
1	J1	CON, THT, Dual Row Socket, 2.54mm, 40 Pos	Adafruit	2222	Mouser	485-2222
1	J2	CON, SMD, Barrel Jack, 2.0mm center	CUI	PJ-036AH-SMT-TR	Mouser	490-PJ-036AH-SMT-TR
1	Q1	IC, SOT23, Inductive Load Driver	On Semi	NUD3124LT1G	Mouser	863-NUD3124LT1G
1	Q2	TRANSISTOR, SOT363, Bipolar, PNP, Dual Matched	Diodes Inc	BCM857BS-7-F	Mouser	621-BCM857BS-7-F
1	Q3	TRANSISTOR, SOT23, Mosfet, P-CH, -5A, -20V	Diodes Inc	DMG2305UX-7	Mouser	621-DMG2305UX-7
2	R1 R5	RES, 0603, 4.7k, 1%, T100	Panasonic	ERJ-3EKF4701V	Mouser	667-ERJ-3EKF4701V
2	R2 R3	RES, 0603, 3.9k, 1%, T100	Panasonic	ERJ-3EKF3901V	Mouser	667-ERJ-3EKF3901V
1	R4	RES, 0603, 1k, 1%, T100	Panasonic	ERJ-3EKF1001V	Mouser	667-ERJ-3EKF1001V
1	R6	RES, 0603, 47k, 1%, T100	Panasonic	ERJ-3EKF4702V	Mouser	667-ERJ-3EKF4702V
1	R7	RES, 0603, 10k, 1%, T100	Panasonic	ERJ-3EKF1002V	Mouser	667-ERJ-3EKF1002V
1	R8	RES, 0603, 44.2k, 1%, T100	Panasonic	ERJ-3EKF4422V	Mouser	667-ERJ-3EKF4422V
1	R9	RES, 0603, 232k, 1%, T100	Yageo	RC0603FR-07232KL	Mouser	603-RC0603FR-07232KL
1	SW1	SW, SMD, Push Button	Omron	B3U-1000P	Mouser	653-B3U-1000P
3	U1 U2 U3	IC, TDFN10, 1-Wire Thermocouple Converter	Maxim	MAX31850KATB+	Mouser	700-MAX31850KATB+
1	U4	IC, TO92, 1-Wire Temperature Sensor	Maxim	DS18S20+	Mouser	700-DS18S20
1	U5	IC, DFN8, I2C Serial EEPROM, 32kbit	Atmel	AT24CS32-MAHM-E	Mouser	556-AT24CS32-MAHM-E
1	U6	MODULE, SMD, Simple Switcher, 17V, .65A	TI	LMZ21700SILR	Mouser	595-LMZ21700SILR
1	U7	IC, SOT89-3, LDO VREG, 16V, .15A	Microchip	MCP1754ST-3302E/MB	Mouser	579-MCP1754ST3302EMB