

Raspberry Power Supply Unit ver. 1.3

Bill of materials

Qty	Reference(s)	Value	Footprint / note
Resistors			
5	R1, R5, R6, R15, R16	3k3	SMD 0805
3	R3, R4, R9	100k	SMD 0805
1	R7	470k	SMD 0805
2	R8, R10	10k	SMD 0805
1	R11	120k	SMD 0805
1	R12	220k	SMD 0805
1	R13	150k	SMD 0805
1	R14	270k	SMD 0805
1	R17	820R	SMD 0805
1	R18	470R	SMD 0805
Capacitors			
1	C1	22uF	SMD 0805
2	C2, C3	100nF	SMD 0805
Diodes			
4	D1, D3, D4, D5	BAT54C	SMD SOT23
1	D2	BZX84C3V3	SMD SOT23
1	D6	LED (ORANGE)	SMD 1206 (5V signalization)
1	D7	LED (GREEN)	SMD 1206 (3.3V signalization)
Transistors			
2	T1, T3	2N7002	SMD SOT23
1	T2	AO3401	SMD SOT23
Integrated circuit			
1	IC1	MCP6007	IC SMD SO08
Modules			
1	MOD1	Lilon 18650 Management	Lilon 18650 Charger & StepUp
Switches			
2	SW1,SW2 / SW3,SW4	POWER ON / OFF	B1720A / PHAP3355R
Connectors			
2	CON1,CON3	POWER, BATT	PSH02 03P horizontal
1	CON2	RPi	Header 2x20 pins (stackable)
Jumpers			
2	J1, J2	JUMPER SMD	No battery usage
1	J3	JUMPER SMD	Low battery voltage pin selection
Screws			
4	S1, S2, S3, S4	SCREW	Mechanical screw 2.5mm