

**MCU rp2040**

**Decoupling capacitors**

**I/O Connectors**

**ESC connectors**

**Test points**

**UART & I2C**

**GPIO**

**BOOTSEL**

**RESET**

**SWD Debug**

**IMU**

**ADCs**

**Leds**

**USB-C**

**Power**

**Netlist:**

Ref	Value	Footprint	Package	Part
U1	BMI270	BMI270	6-pin SMD	BMI270
U2	RP2040	RP2040	40-pin SMD	RP2040
U3	W25Q128JVSQ	W25Q128	8-pin SMD	W25Q128
U4	AMS1117-5.0	AMS1117	8-pin SMD	AMS1117
U5	AMS1117-3.3	AMS1117	8-pin SMD	AMS1117
Y1	CM4012M00020T8188087	CM4012	3-pin SMD	CM4012
D1	LED	LED	3-pin SMD	LED
D2	LED	LED	3-pin SMD	LED
D3	LED	LED	3-pin SMD	LED
D4	D_Schottky	D_Schottky	2-pin SMD	D_Schottky
D5	D_Schottky	D_Schottky	2-pin SMD	D_Schottky
Q1	Q_Pmos_GSD	Q_Pmos_GSD	3-pin SMD	Q_Pmos_GSD
R1	1k	0603	0603	1k
R2	27.4k	0603	0603	27.4k
R3	27.4k	0603	0603	27.4k
R4	10k	0603	0603	10k
R5	5.11k	0603	0603	5.11k
R6	5.11k	0603	0603	5.11k
R7	330R	0603	0603	330R
R8	330R	0603	0603	330R
R9	330R	0603	0603	330R
R10	10k	0603	0603	10k
R11	5.6k	0603	0603	5.6k
R12	1k	0603	0603	1k
R13	10k	0603	0603	10k
R14	10k	0603	0603	10k
R15	10k	0603	0603	10k
R16	20k	0603	0603	20k
C1	30pF	0603	0603	30pF
C2	30pF	0603	0603	30pF
C3	100nF	0603	0603	100nF
C4	100nF	0603	0603	100nF
C7	1uF	0603	0603	1uF
C8	100nF	0603	0603	100nF
C9	100nF	0603	0603	100nF
C10	100nF	0603	0603	100nF
C11	100nF	0603	0603	100nF
C12	100nF	0603	0603	100nF
C13	100nF	0603	0603	100nF
C14	100nF	0603	0603	100nF
C15	1uF	0603	0603	1uF
C16	100nF	0603	0603	100nF
C17	100nF	0603	0603	100nF
C18	100nF	0603	0603	100nF
C19	100nF	0603	0603	100nF
C20	10uF	0603	0603	10uF
C21	10uF	0603	0603	10uF
C22	10uF	0603	0603	10uF
C23	10uF	0603	0603	10uF
J1	VBAT	J1	3-pin	J1
J2	GPIO24	J2	4-pin	J2
J3	VBAT	J3	3-pin	J3
J4	VBAT	J4	3-pin	J4
J5	TX_2_PIO	J5	4-pin	J5
J6	VBAT	J6	3-pin	J6
J7	RESET	J7	2-pin	J7
J8	RX_2_PIO	J8	4-pin	J8
J9	VBAT	J9	3-pin	J9
J10	USB_C_Receptacle_USB2.0	J10	12-pin	J10
J11	GPIO22	J11	4-pin	J11
J12	GPIO23	J12	4-pin	J12
J13	GPIO24	J13	4-pin	J13
J14	SWCLK	J14	3-pin	J14
J15	SDA1	J15	4-pin	J15

Rev: B