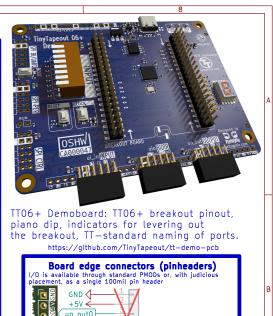
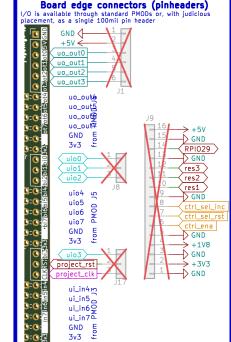
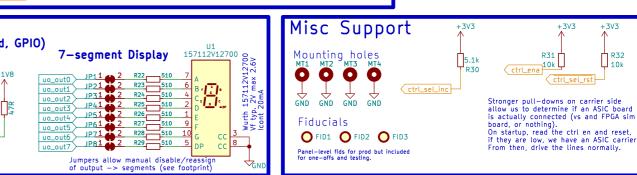


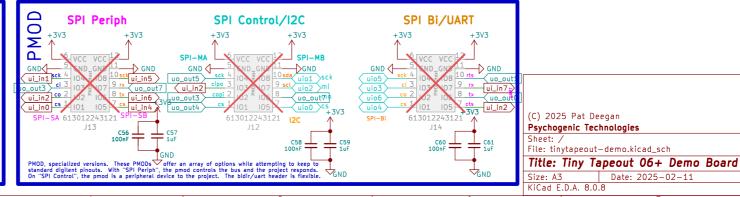
PMOD host (female) headers,



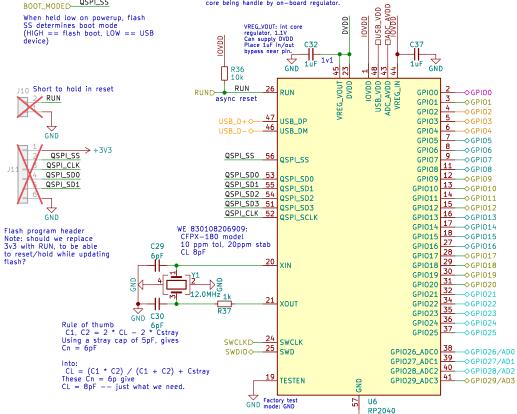


R32 10k





TOYDD IOYDD Logic supply, nominally 3v3. BOOT_MODED QSPLSS When held low on powerup, flash SS detarmines boot model When held low on powerup, flash SS detarmines boot model SS detarmines boot model WES VOID to be so the service of the servi



Flash			Supply bypass, place near 1, 10, 22, 33, 42, 49	
Note: SS pulled-up externally, from bootmode switch	100nF \$2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		C33	Supply bypass, near 23, 50
QSPLSS 1 CS QSPLCLK 6 CLK	103 / QSPI.	_SD3	GND GND GND GND	100nF
	→ W25Q32JVSS Quad SPI requi			

status register—2 to be set. In this case, WP becomes IO2 and HOLD becomes IO3.

GND

GND

	Function								
GPIO	F1	F2	F3	F4	F5	F6	F7	F8	F9
0	SPI0 RX	UARTO TX	I2C0 SDA	PWM0 A	SIO	PI00	PIO1		USB OVCUR DET
1	SPI0 CSn	UARTO RX	I2C0 SCL	PWM0 B	SIO	PI00	PIO1		USB VBUS DET
2	SPI0 SCK	UARTO CTS	I2C1 SDA	PWM1 A	SIO	PIO0	PIO1		USB VBUS EN
3	SPI0 TX	UARTO RTS	I2C1 SCL	PWM1 B	SIO	PIO0	PI01		USB OVCUR DE
4	SPI0 RX	UART1 TX	I2C0 SDA	PWM2 A	SIO	PIO0	PIO1		USB VBUS DET
5	SPI0 CSn	UART1 RX	I2C0 SCL	PWM2 B	SIO	PIO0	PIO1		USB VBUS EN
6	SPI0 SCK	UART1 CTS	I2C1 SDA	PWM3 A	SIO	PIO0	PI01		USB OVCUR DE
7	SPI0 TX	UART1 RTS	I2C1 SCL	PWM3 B	SIO	PIO0	PI01		USB VBUS DET
8	SPI1 RX	UART1 TX	I2C0 SDA	PWM4 A	SIO	PIO0	PI01		USB VBUS EN
9	SPI1 CSn	UART1 RX	I2C0 SCL	PWM4 B	SIO	PIO0	PI01		USB OVCUR DE
10	SPI1 SCK	UART1 CTS	I2C1 SDA	PWM5 A	SIO	PIO0	PI01		USB VBUS DET
11	SPI1 TX	UART1 RTS	I2C1 SCL	PWM5 B	SIO	PIO0	PI01		USB VBUS EN
12	SPI1 RX	UARTO TX	I2C0 SDA	PWM6 A	SIO	PI00	PI01		USB OVCUR DE
13	SPI1 CSn	UARTO RX	I2C0 SCL	PWM6 B	SIO	PI00	PI01		USB VBUS DET
14	SPI1 SCK	UARTO CTS	I2C1 SDA	PWM7 A	SIO	PIO0	PI01		USB VBUS EN
15	SPI1 TX	UARTO RTS	I2C1 SCL	PWM7 B	SIO	PIO0	PIO1		USB OVCUR DE
16	SPI0 RX	UARTO TX	I2C0 SDA	PWM0 A	SIO	PIO0	PI01		USB VBUS DET
17	SPI0 CSn	UARTO RX	I2C0 SCL	PWM0 B	SIO	PIO0	PI01		USB VBUS EN
18	SPI0 SCK	UARTO CTS	I2C1 SDA	PWM1 A	SIO	PI00	PI01		USB OVCUR DE
19	SPI0 TX	UARTO RTS	I2C1 SCL	PWM1 B	SIO	PI00	PI01		USB VBUS DET
20	SPI0 RX	UART1 TX	I2C0 SDA	PWM2 A	SIO	PI00	PI01	CLOCK GPIN0	USB VBUS EN
21	SPI0 CSn	UART1 RX	I2C0 SCL	PWM2 B	SIO	PI00	PI01	CLOCK GPOUTO	USB OVCUR DE
22	SPI0 SCK	UART1 CTS	I2C1 SDA	PWM3 A	SIO	PI00	PI01	CLOCK GPIN1	USB VBUS DET
23	SPI0 TX	UART1 RTS	I2C1 SCL	РWМ3 В	SIO	PI00	PI01	CLOCK GPOUT1	USB VBUS EN
24	SPI1 RX	UART1 TX	I2C0 SDA	PWM4 A	SIO	PI00	PIO1	CLOCK GPOUT2	USB OVCUR DE
25	SPI1 CSn	UART1 RX	I2C0 SCL	PWM4 B	SIO	PI00	PIO1	CLOCK GPOUT3	USB VBUS DET
26	SPI1 SCK	UART1 CTS	I2C1 SDA	PWM5 A	SIO	PI00	PIO1		USB VBUS EN
27	SPI1 TX	UART1 RTS	I2C1 SCL	PWM5 B	SIO	PI00	PIO1		USB OVCUR DE
28	SPI1 RX	UARTO TX	I2C0 SDA	PWM6 A	SIO	PI00	PIO1		USB VBUS DET
29	SPI1 CSn	UARTO RX	I2C0 SCL	PWM6 B	SIO	PIOO	PIO1		USB VBUS EN

(C) 2023, 2024 Pat Deegan

Psychogenic Technologies

Sheet: /RP2040/ File: rp2040.kicad_sch

	Title:	Tiny	Tapeout	4/5	Demo	Board
--	--------	------	---------	-----	------	-------

Size: A4	Date: 2024	-04-12		Rev: 1.2.2	
KiCad E.D.A. 8.0	.8			ld: 2/2	
4			5	•	