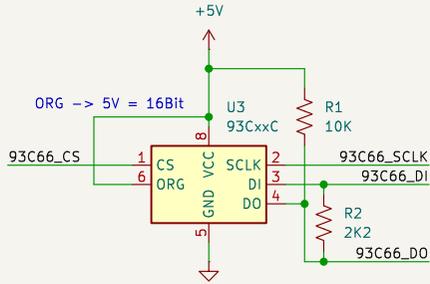
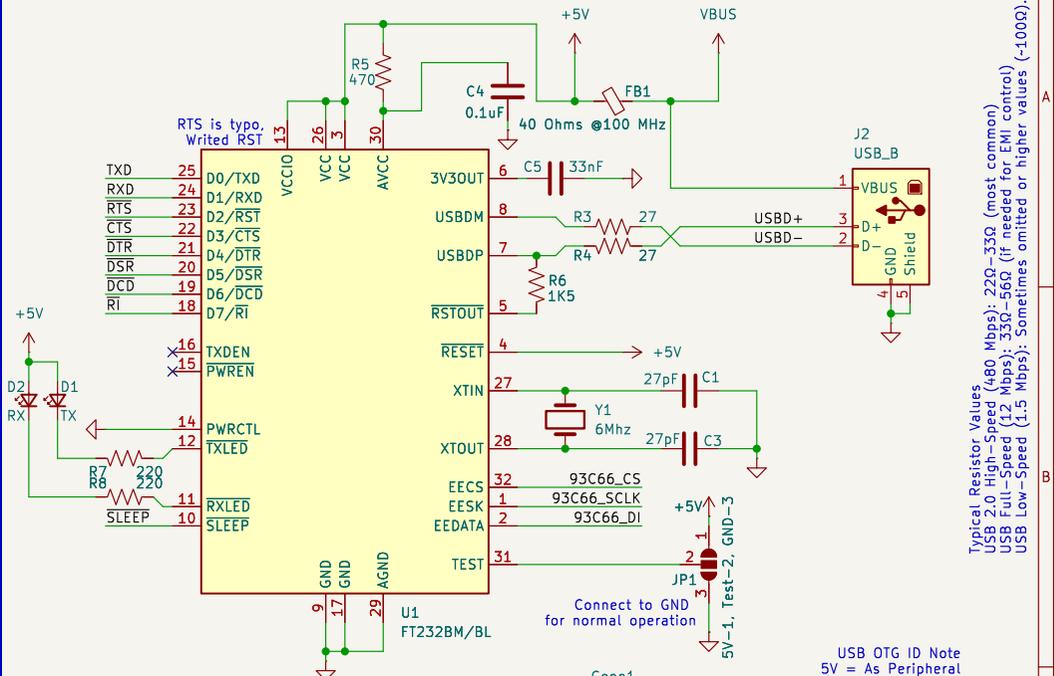


EEPROM



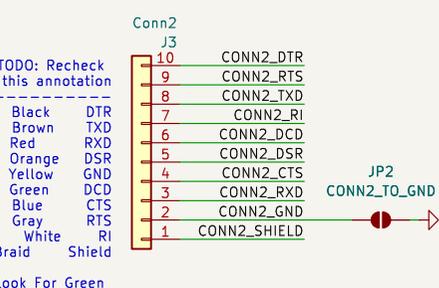
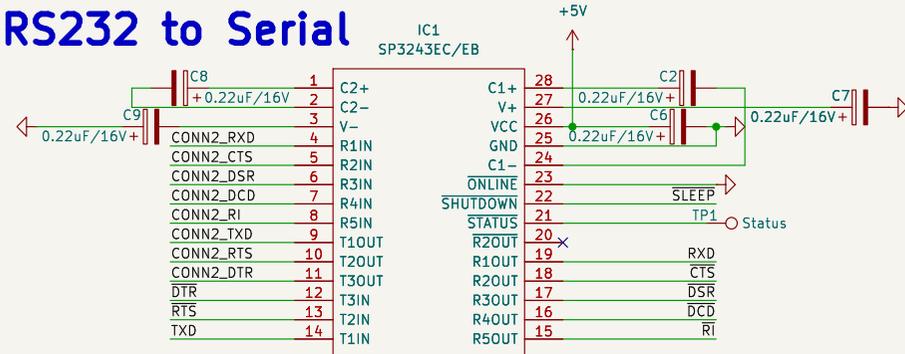
USB to Serial

Recommended Ferrite Bead from Datasheet:
<https://www.digikey.com/en/products/detail/laird-signal-integrity-products/M10805K400R-00/255538>

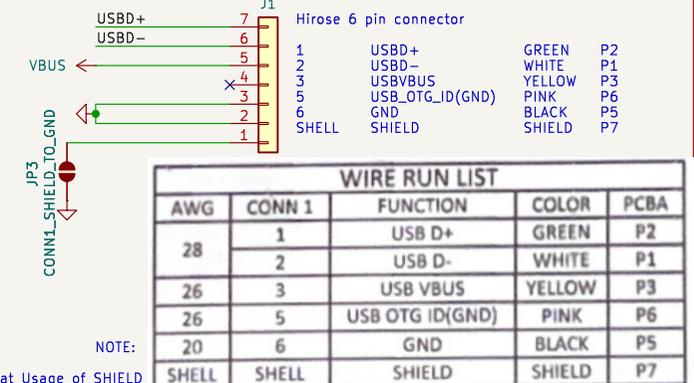
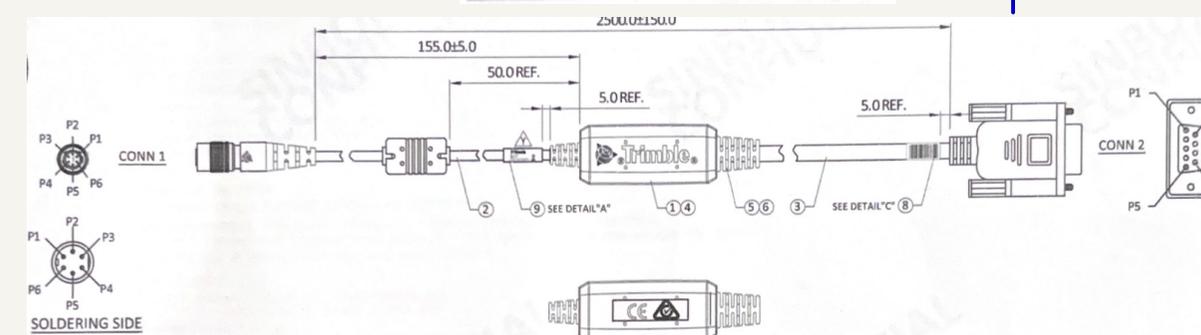


Typical Resistor Values
 USB 2.0 High-Speed (480 Mbps): 22Ω-33Ω (most common)
 USB Full-Speed (12 Mbps): 33Ω-56Ω (if needed for EMI control)
 USB Low-Speed (1.5 Mbps): Sometimes omitted or higher values (~100Ω).

RS232 to Serial



AWG	CONN 2	COLOR	FUNTION	PCBA
20	1	BLACK	DTR	1
26	2	BROWN	TXD	2
20	3	RED	RXD	3
26	4	ORANGE	DSR	4*
26	5	YELLOW	GND	5
26	6	GREEN	DTR	6
20	7	BLUE	CTS	7
26	8	GRAY	RTS	8
26	9	WHITE	RI	9
SHELL	SHELL	BRAID	SHIELD	10



AWG	CONN 1	FUNCTION	COLOR	PCBA
28	1	USB D+	GREEN	P2
28	2	USB D-	WHITE	P1
26	3	USB VBUS	YELLOW	P3
26	5	USB_OTG_ID(GND)	PINK	P6
20	6	GND	BLACK	P5
SHELL	SHELL	SHIELD	SHIELD	P7

CRUMBS

Sheet: /

File: hokushime-db9-to-rs232.kicad_sch

Title: Hokushime USB to RS232

Size: A4 Date: 2025-04-15

KiCad E.D.A. 9.0.0

Rev: 0.1

Id: 1/1