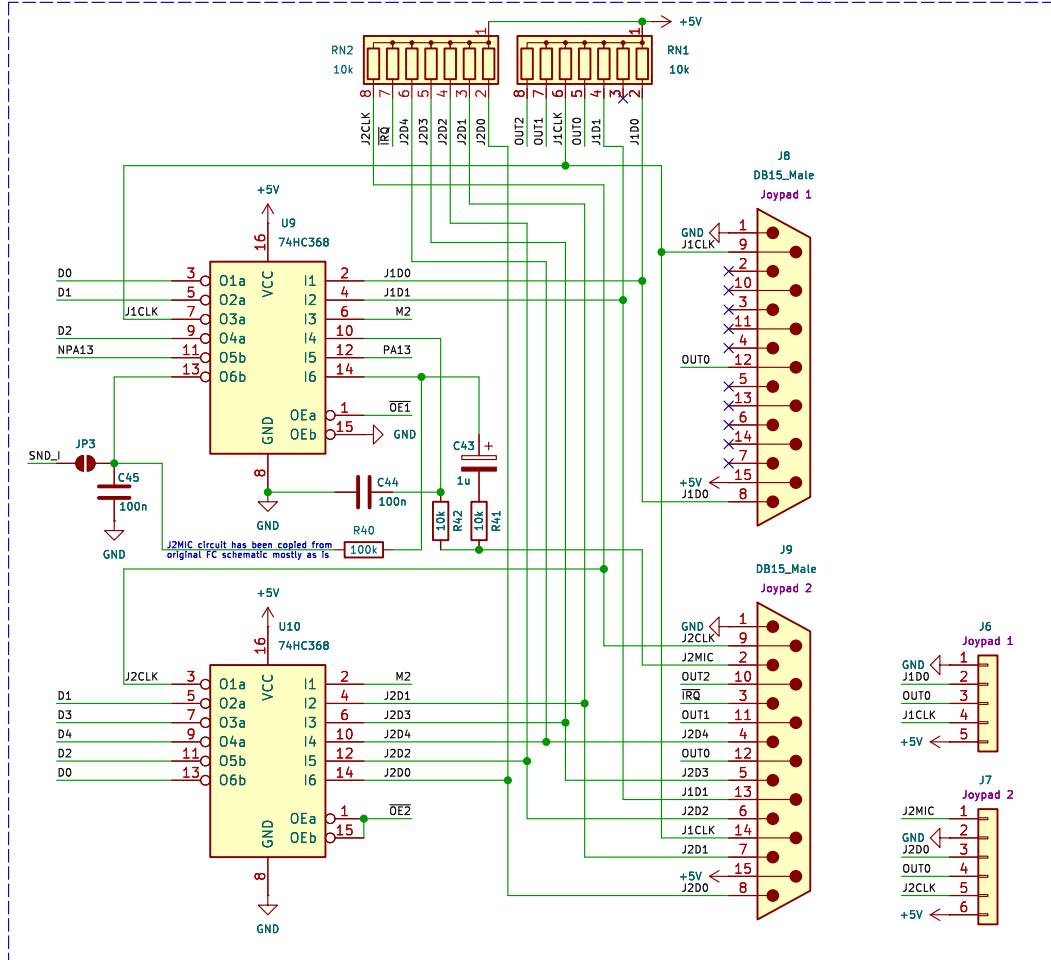
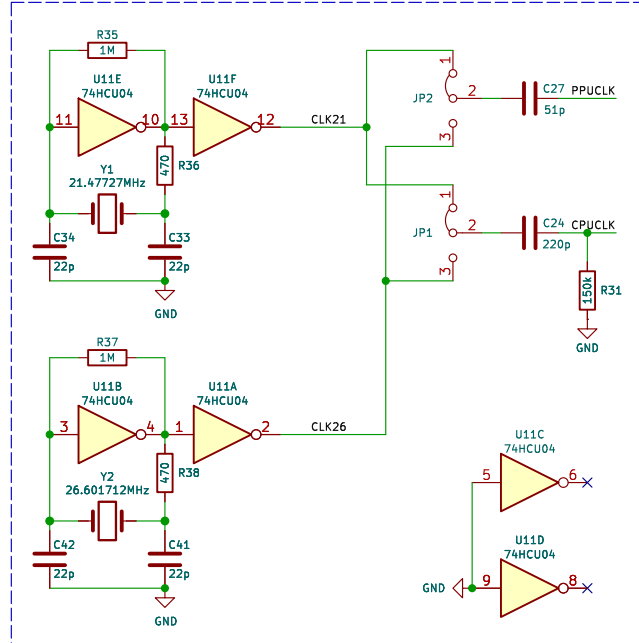


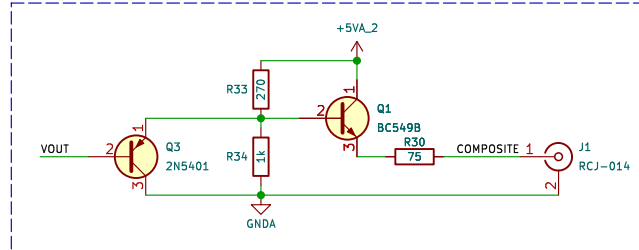
JOYSTICKS



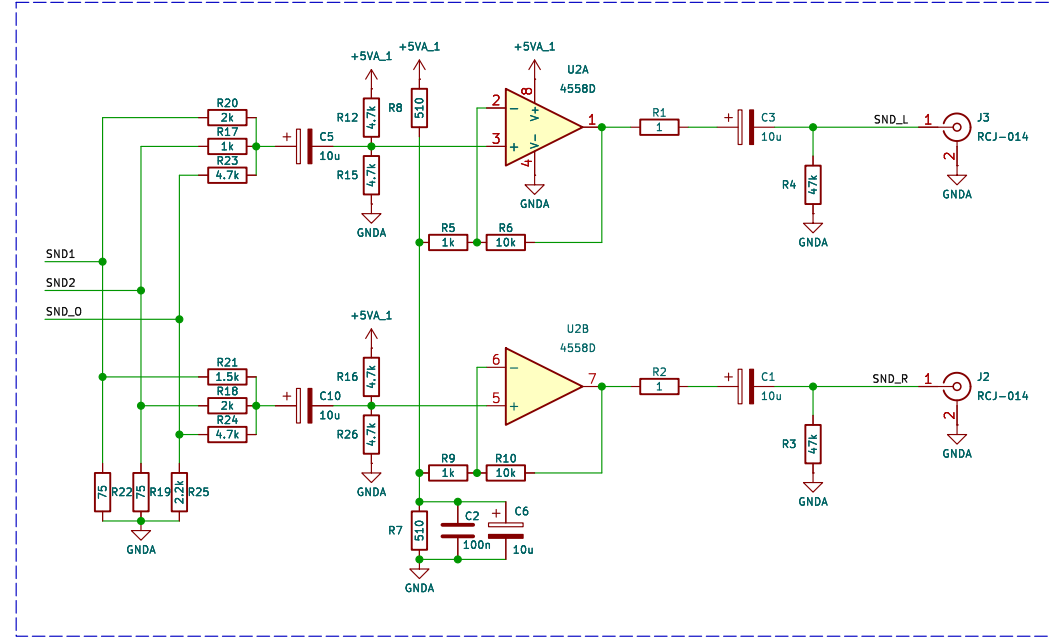
CLOCK



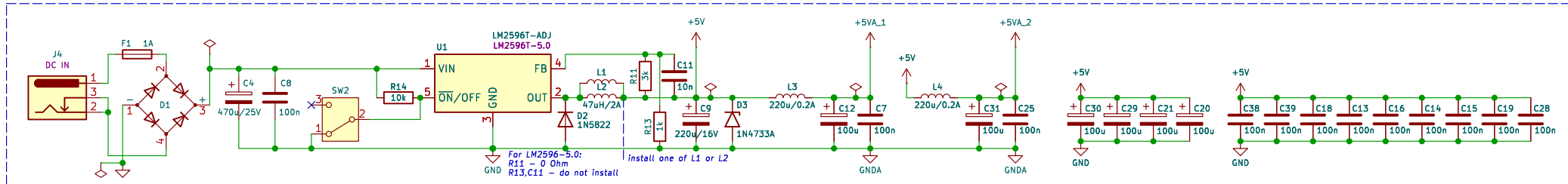
VIDEO



AUDIO



POWER



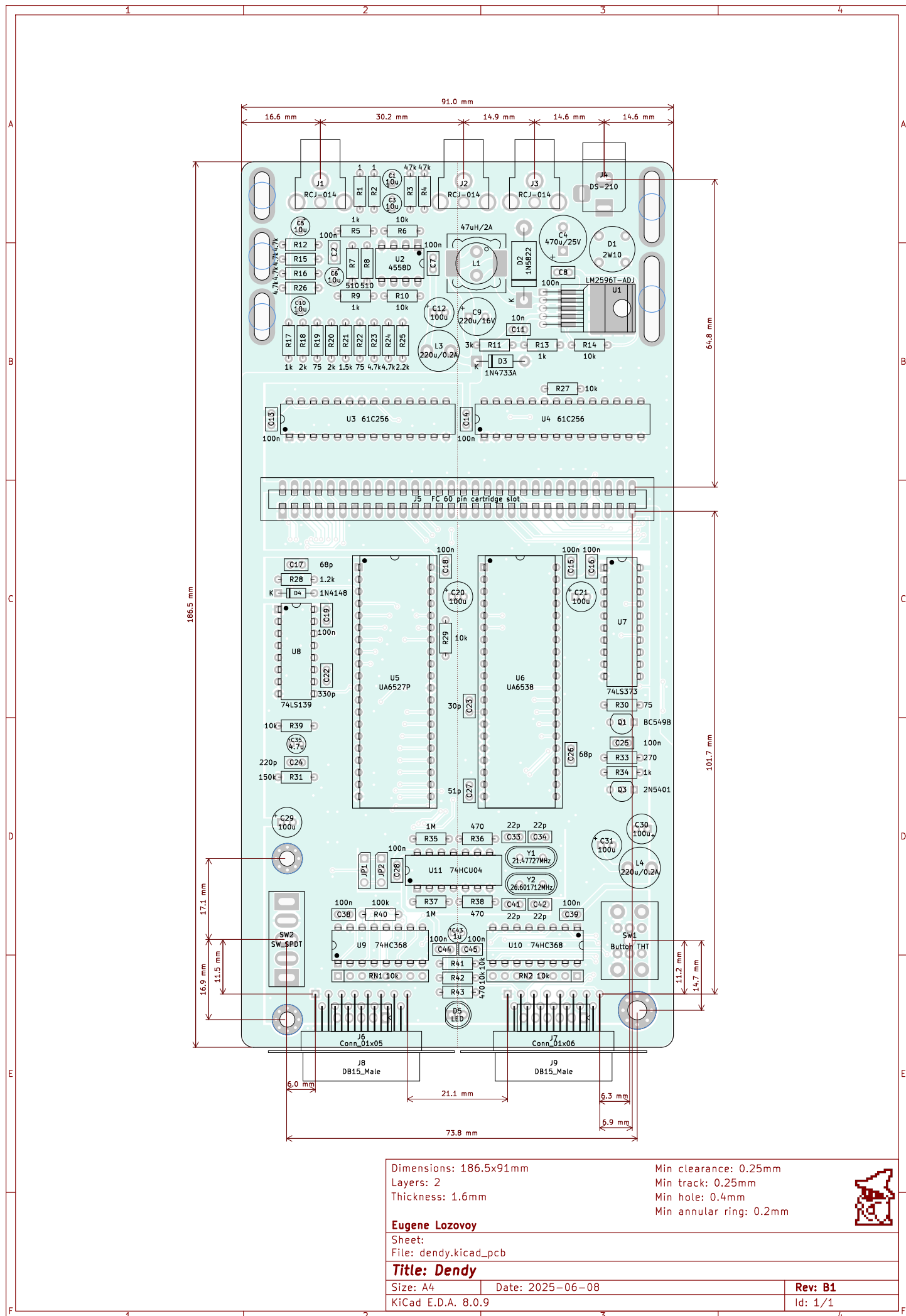
Famicom/NES clone
Based on original Famicom, HardWareMan, megawalkman, lm2000, HotPixel schematics

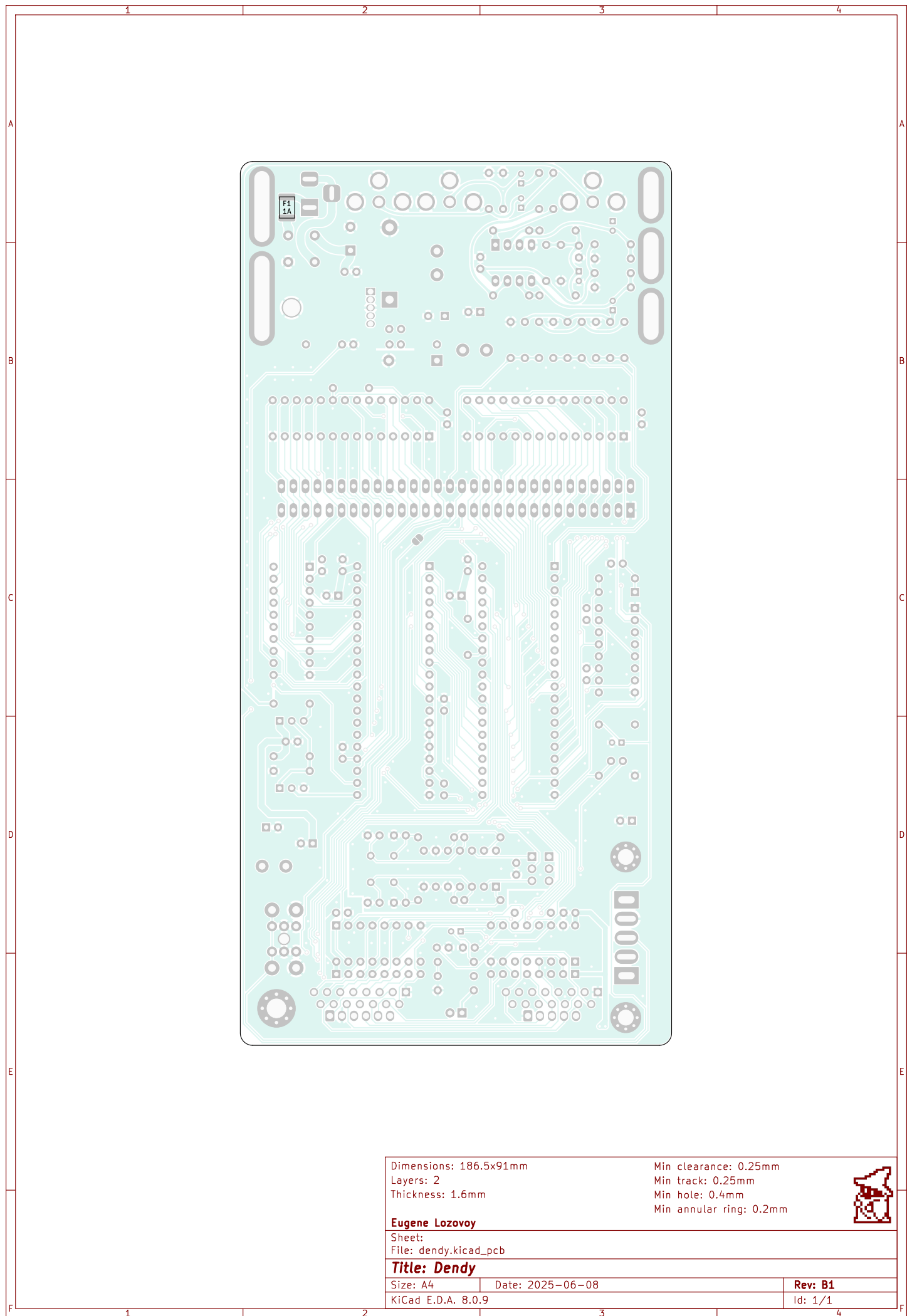
Eugene Lozovsky


Sheet: /
File: dendy.kicad_sch

Title: Dendy

Size: A3	Date: 2025-06-08	Rev: B1
KiCad E.D.A. 8.0.9		Id: 1/1





Dimensions: 186.5x91mm		Min clearance: 0.25mm	
Layers: 2		Min track: 0.25mm	
Thickness: 1.6mm		Min hole: 0.4mm	
		Min annular ring: 0.2mm	
Eugene Lozovoy			
Sheet:			
File: dendy.kicad_pcb			
Title: Dendy			
Size: A4	Date: 2025-06-08		Rev: B1
KiCad E.D.A. 8.0.9			Id: 1/1

Bill Of Materials

References	Value	Footprint	Qty
C1 C3 C5 C6 C10	10u	PCM_Capacitor_THT_AKL:CP_Radial_D4.0mm_P2.00mm	5
C2 C7 C8 C13 C14 C15 C16 C18 C19 C25 C28 C38 C39 C44 C45	100n	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	15
C4	470u/25V	PCM_Capacitor_THT_AKL:CP_Radial_D10.0mm_P5.00mm	1
C9	220u/16V	PCM_Capacitor_THT_AKL:CP_Radial_D8.0mm_P3.50mm	1
C11	10n	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	1
C12 C20 C21 C29 C30 C31	100u	PCM_Capacitor_THT_AKL:CP_Radial_D6.3mm_P2.50mm	6
C17 C26	68p	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	2
C22	330p	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	1
C23	30p	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	1
C24	220p	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	1
C27	51p	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	1
C33 C34 C41 C42	22p	PCM_Capacitor_THT_AKL:C_Disc_D5.0mm_W2.5mm_P2.50mm	4
C35	4.7u	PCM_Capacitor_THT_AKL:CP_Radial_D4.0mm_P2.00mm	1
C43	1u	PCM_Capacitor_THT_AKL:CP_Radial_D4.0mm_P2.00mm	1
D1	2W10	my:Diode_Bridge_Round_D10.0mm	1
D2	1N5822	PCM_Diode_THT_AKL:D_DO-201AD_P15.24mm_Horizontal	1
D3	1N4733A	PCM_Diode_THT_AKL:D_DO-41_SOD81_P10.16mm_Horizontal	1
D4	1N4148	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal	1
D5	LED	LED_THT:LED_D5.0mm	1
F1	1A	Fuse:Fuse_1812_4532Metric_Pad1.30x3.40mm_HandSolder	1
J1 J2 J3	RCJ-014	my:CUI_RCJ-01X	3
J4	DS-210	Connector_BarrelJack:BarrelJack_Horizontal	1
J5	FC 60 pin cartridge slot	my:FC60	1
J8 J9	DB15_Male	Connector_Dsub:DSUB-15_Male_Horizontal_P2.77x2.54mm_EdgePinOffset9.40mm	2
JP1 JP2	Jumper_3_Bridged12	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical	2
L1	47uH/2A	PCM_Inductor_SMD_AKL:L_12x12mm_H8mm	1

L3 L4	220u/0.2A	PCM_Inductor_THT_AKL:L_Radial_D8.7mm_P5.00mm_Fastron_07HCP	2
Q1	BC549B	PCM_Package_TO_SOT_THT_AKL:TO-92_Inline_Wide_CBE	1
Q3	2N5401	PCM_Package_TO_SOT_THT_AKL:TO-92_Inline_Wide_EBC	1
R1 R2	1	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	2
R3 R4	47k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	2
R5 R9 R13 R17 R34	1k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	5
R6 R10 R14 R27 R29 R39 R41 R42	10k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	8
R7 R8	510	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	2
R11	3k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
R12 R15 R16 R23 R24 R26	4.7k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	6
R18 R20	2k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	2
R19 R22 R30	75	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	3
R21	1.5k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
R25	2.2k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
R28	1.2k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
R31	150k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
R33	270	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
R35 R37	1M	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	2
R36 R38 R43	470	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	3
R40	100k	PCM_Resistor_THT_AKL:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	1
RN1 RN2	10k	Resistor_THT:R_Array_SIP8	2
SW1	Button THT	my:FC_Reset_Switch_Universal	1
SW2	SW_SPDT	my:FC_Power_Switch_Universal	1
U1	LM2596T-ADJ (Alternatives: LM2596T-5.0)	my:TO-220-263-5_Horizontal_TabDown	1
U2	4558D	PCM_Package_DIP_AKL:DIP-8_W7.62mm_LongPads	1
U3 U4	61C256 (Alternatives: 6264, 62128, 62256, AS7C256, W24257AK)	PCM_Package_DIP_AKL:DIP-28_W7.62mm	2
U5	UA6527P (Alternatives: HA6527P, TA-03NP, MG-P-501)	PCM_Package_DIP_AKL:DIP-40_W15.24mm_Socket	1

U6	UA6538 (Alternatives: HA6538, TA-02NP, MG-P-502)	PCM_Package_DIP_AKL:DIP-40_W15.24mm_Socket	1
U7	74LS373	PCM_Package_DIP_AKL:DIP-20_W7.62mm	1
U8	74LS139	PCM_Package_DIP_AKL:DIP-16_W7.62mm	1
U9 U10	74HC368	PCM_Package_DIP_AKL:DIP-16_W7.62mm	2
U11	74HCU04	PCM_Package_DIP_AKL:DIP-14_W7.62mm	1
Y1	21.47727MHz	PCM_Crystal_AKL:Crystal_HC49-U_Vertical	1
Y2	26.601712MHz	PCM_Crystal_AKL:Crystal_HC49-U_Vertical	1

