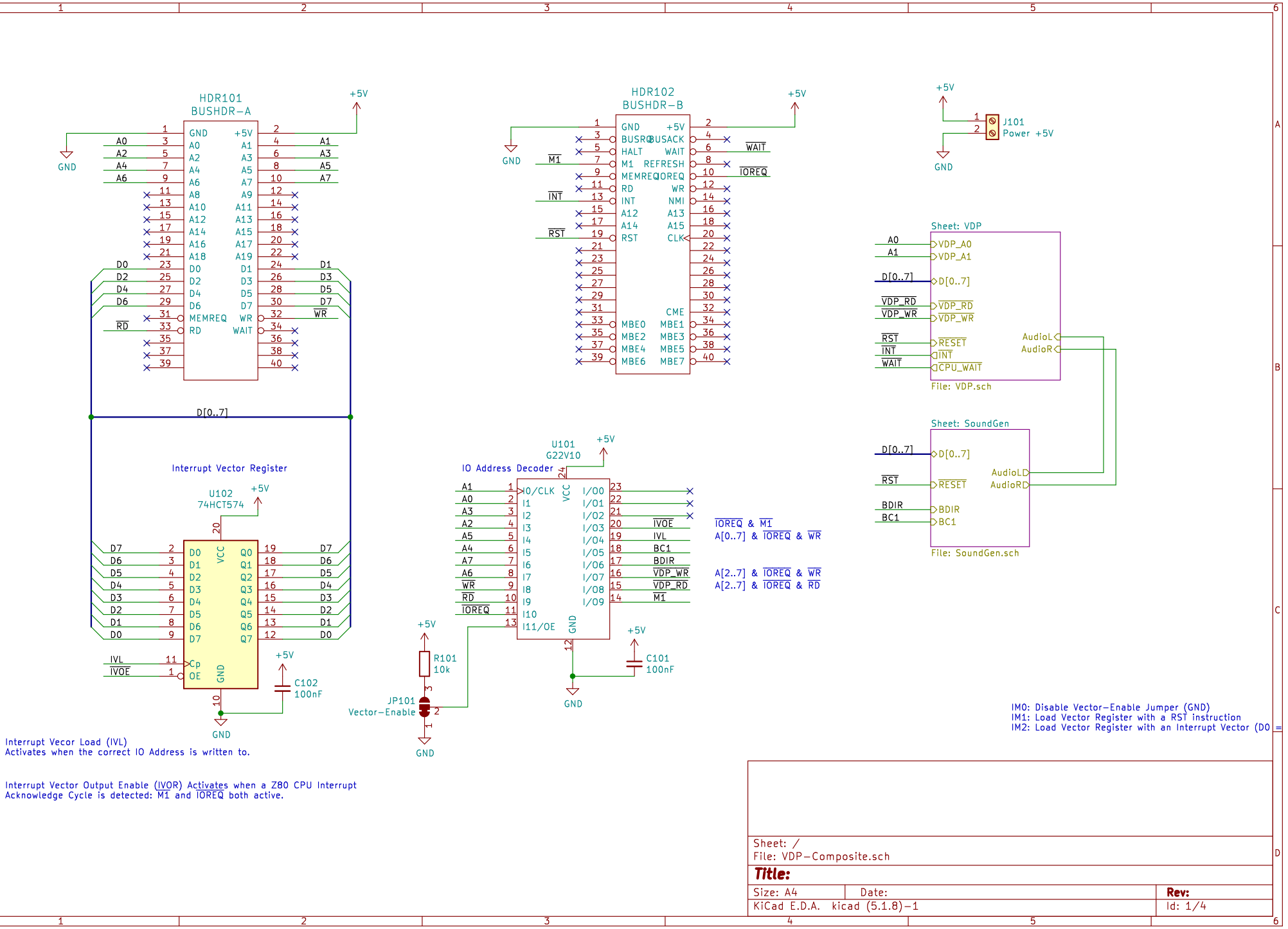
HDR101
BUSHDR-A
HDR102
BUSHDR-B
J101
Power +5V
Sheet: VDP
File: VDP.sch
Sheet: SoundGen
File: SoundGen.sch
D[0..7]
Interrupt Vector Register
U102
74HCT574
U101
G22V10
IO Address Decoder
R101
10k
JP101
Vector-Enable
C101
100nF
C102
100nF
IOREQ & M1
A[0..7] & IOREQ & WR
A[2..7] & IOREQ & WR
A[2..7] & IOREQ & RD
Interrupt Vecor Load (IVL)
Activates when the correct IO Address is written to.
Interrupt Vector Output Enable (IVOR) Activates when a Z80 CPU Interrupt
Acknowledge Cycle is detected: M1 and IOREQ both active.
IM0: Disable Vector-Enable Jumper (GND)
IM1: Load Vector Register with a RST instruction
IM2: Load Vector Register with an Interrupt Vector (D0 = 0)
Sheet: /
File: VDP-Composite.sch
Title:
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Date:
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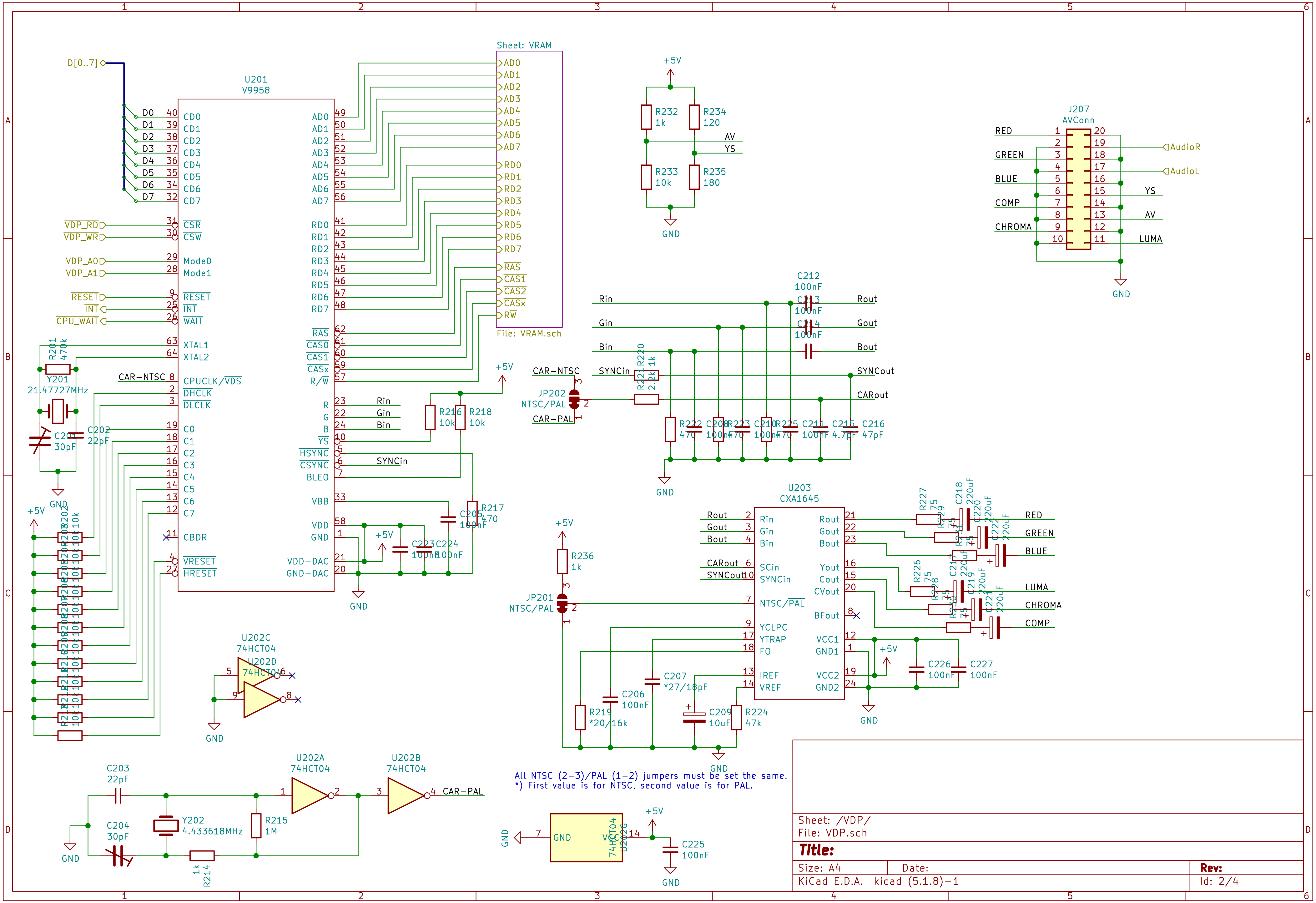
Sheet: VRAM
File: VRAM.sch
U201
V9958
D[0..7]
D0 D1 D2 D3 D4 D5 D6 D7
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7
AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7
RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
RAS CAS0 CAS1 CASx R/W RW
VDP_RD VDP_WR VDP_A0 VDP_A1 RESET INT CPU_WAIT
CSR CSW Mode0 Mode1 RESET INT WAIT XTAL1 XTAL2 CPUCLK/VDS DHCLK DLCLK
C0 C1 C2 C3 C4 C5 C6 C7 CBDR VRESET HRESET
R G B YS HSYNC CSYNC BLEO VBB VDD GND VDD-DAC GND-DAC
R201 470k
Y201 21.47727MHz
C201 30pF
C202 22pF
CAR-NTSC
CAR-PAL
R202 R203 R204 R205 R206 R207 R208 R209 R210 R211 R212 R213 R214 10k
R216 10k
R218 10k
R217 470
C205 100nF
C223 100nF
C224 100nF
+5V
GND
U202C 74HCT04
U202D 74HCT04
U202A 74HCT04
U202B 74HCT04
U202E 74HCT04
C203 22pF
C204 30pF
Y202 4.433618MHz
R215 1M
R214 1k
C225 100nF
R232 1k
R234 120
R233 10k
R235 180
AV YS
J207 AVConn
RED GREEN BLUE COMP CHROMA
AudioR AudioL YS AV LUMA
C212 100nF
C213 100nF
C214 100nF
Rin Gin Bin SYNCin
Rout Gout Bout SYNCout CARout
R220 1k
R221 2.2k
JP202 NTSC/PAL
R222 470
C208 100nF
R223 470
C210 100nF
R225 470
C211 100nF
C215 4.7pF
C216 47pF
U203 CXA1645
Rin Gin Bin SCin SYNCin NTSC/PAL YCLPC YTRAP FO IREF VREF
Rout Gout Bout Yout Cout CVout BFout VCC1 GND1 VCC2 GND2
R236 1k
JP201 NTSC/PAL
R219 *20/16k
C206 100nF
C207 *27/18pF
C209 10uF
R224 47k
C226 100nF
C227 100nF
R227 75
R229 75
R231 75
R226 75
R228 75
R230 75
C218 220uF
C220 220uF
C222 220uF
C217 220uF
C219 220uF
C221 220uF
RED GREEN BLUE LUMA CHROMA COMP
All NTSC (2-3)/PAL (1-2) jumpers must be set the same.
*) First value is for NTSC, second value is for PAL.
Sheet: /VDP/
File: VDP.sch
Title:
Size: A4
Date:
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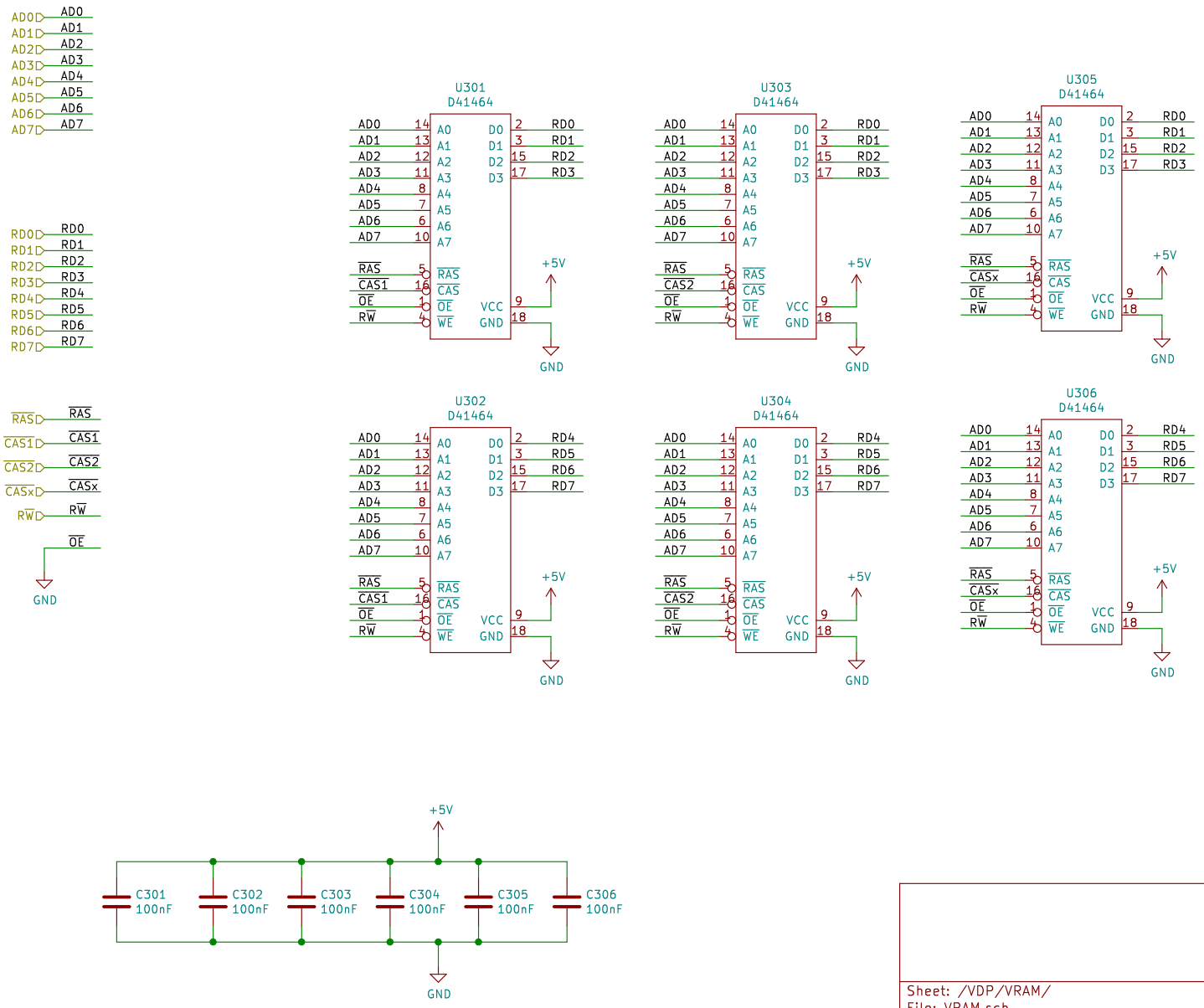
Id: 2/4



Sheet: /VDP/VRAM/
File: VRAM.sch

Title:

Size: A4	Date:	**Rev:**
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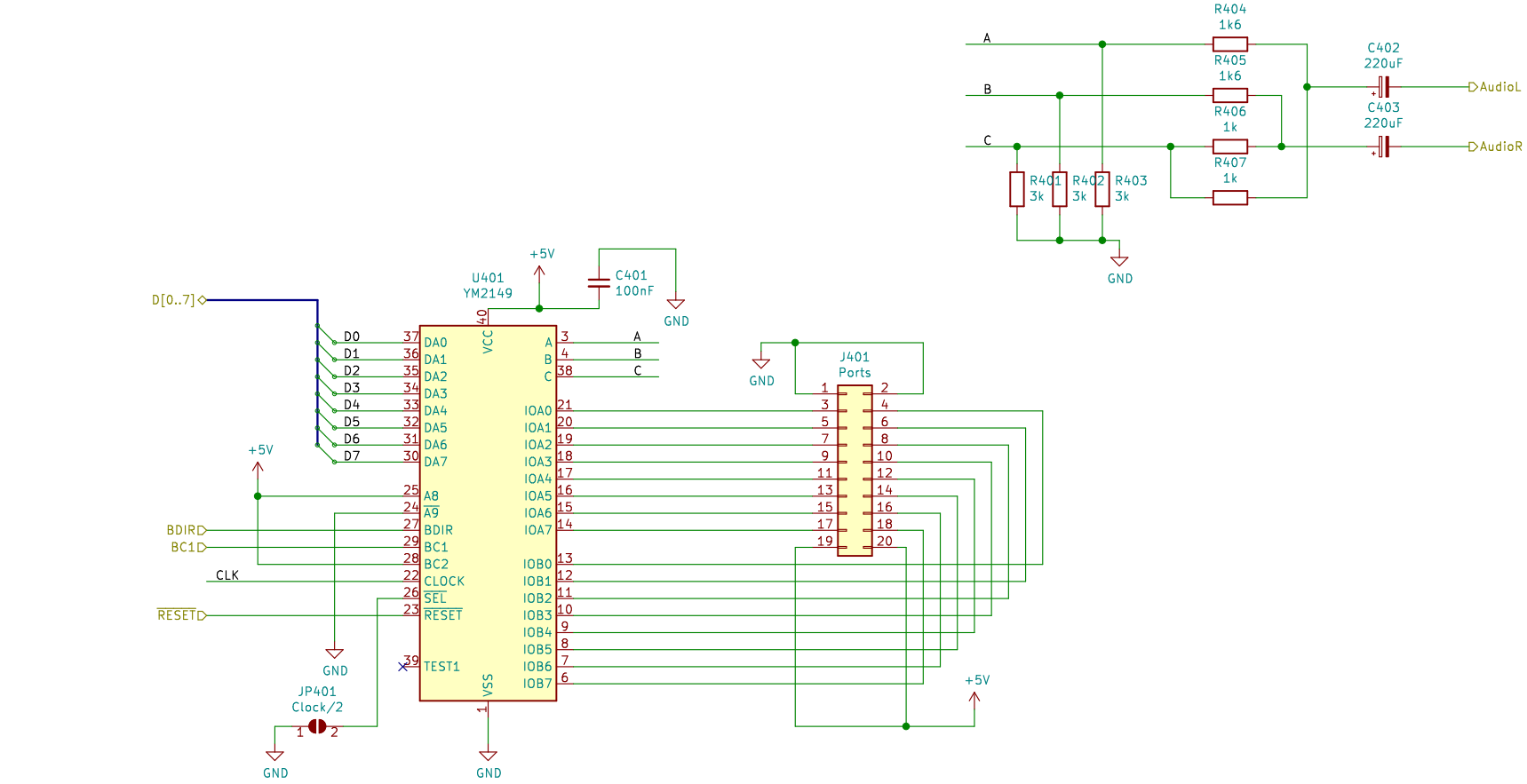

Sheet: /SoundGen/		
File: SoundGen.sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.8)-1		Id: 4/4