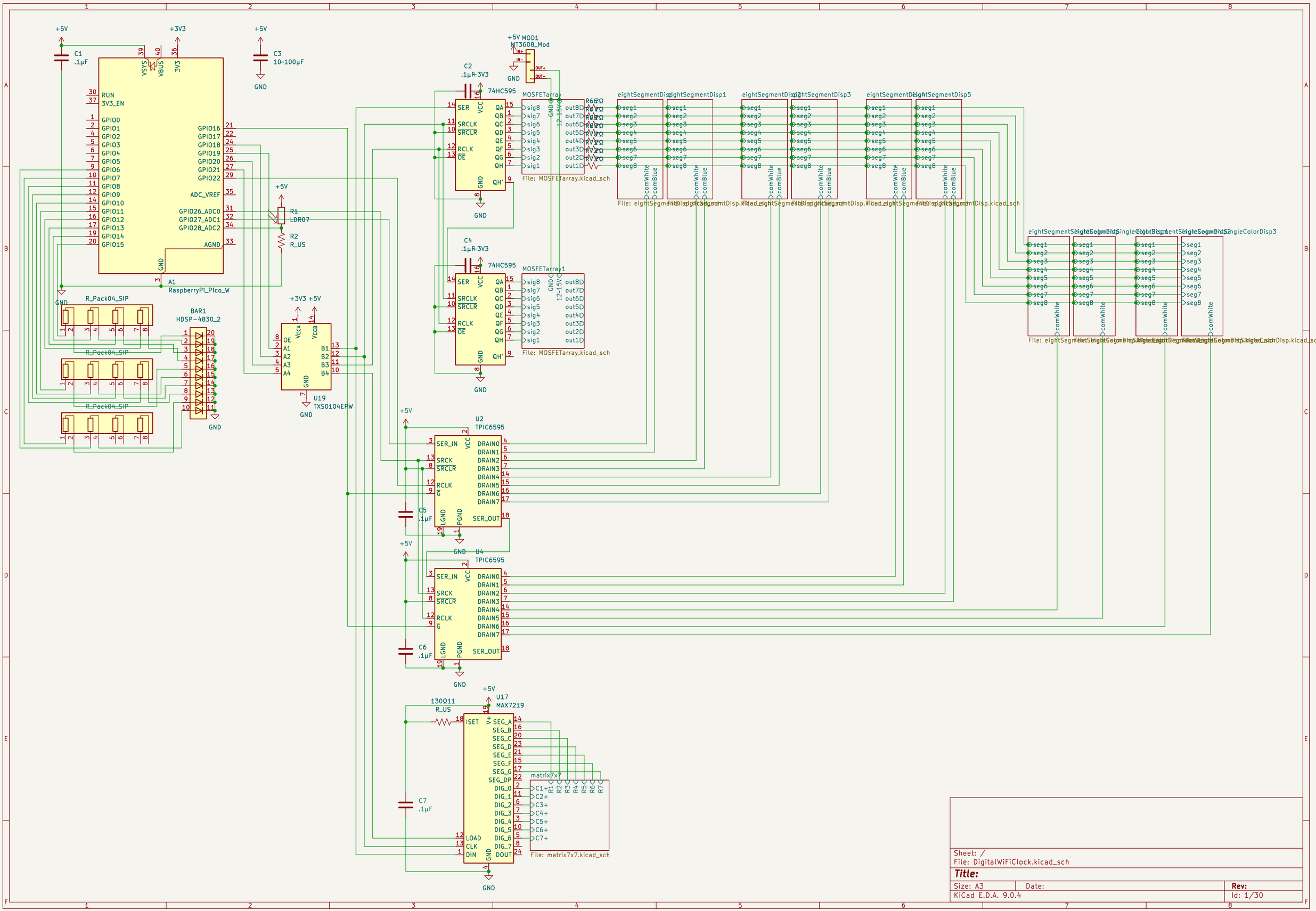
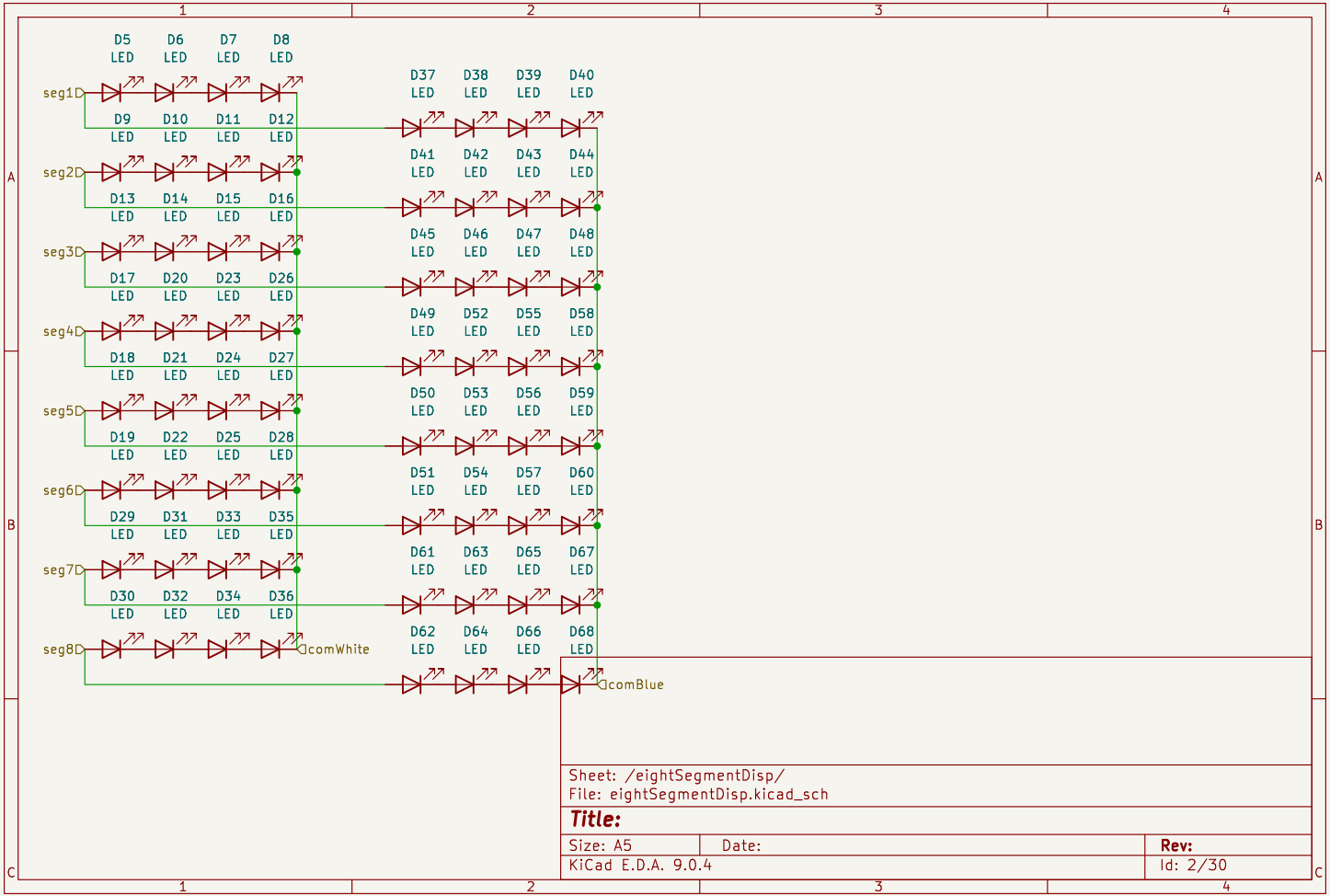
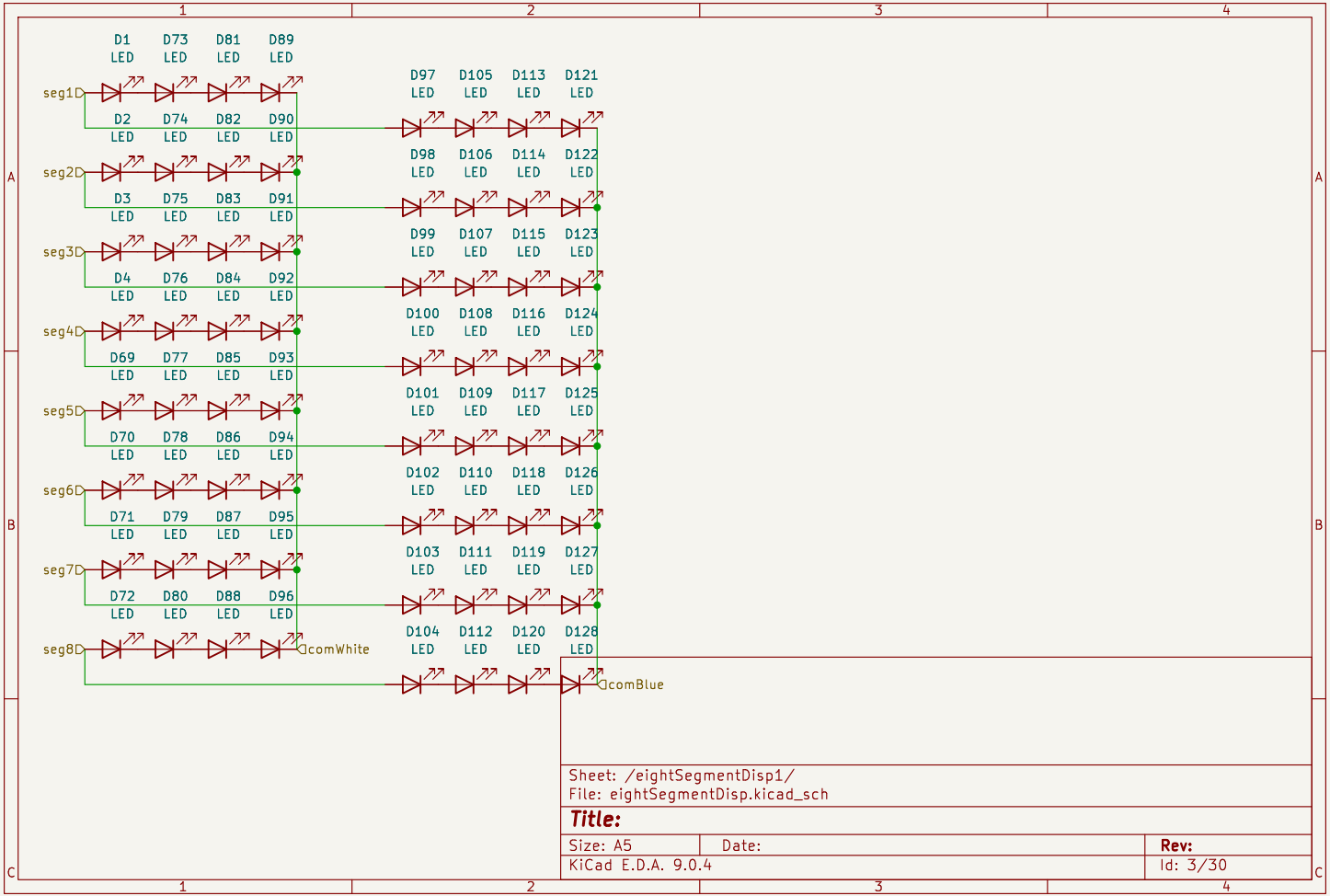
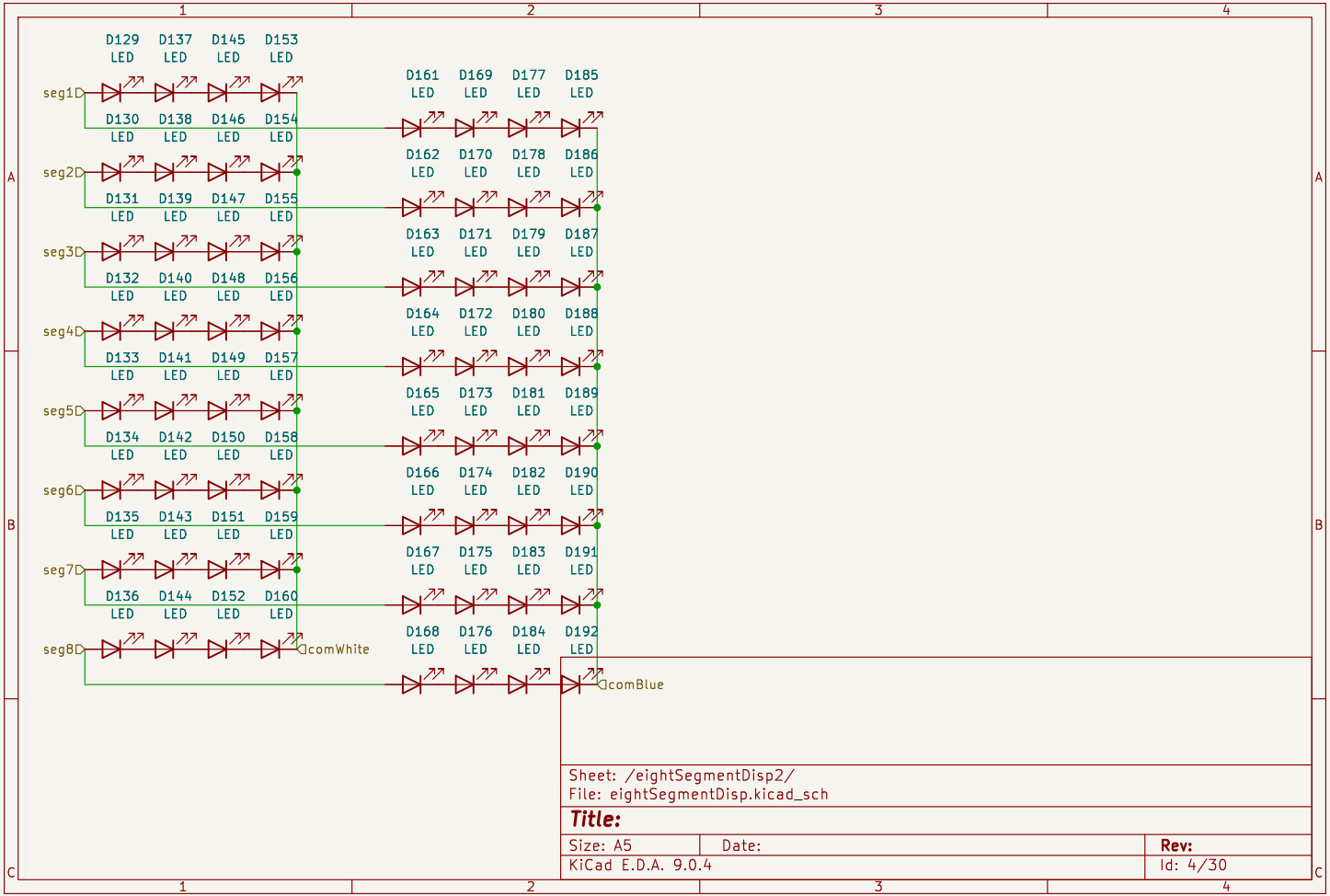
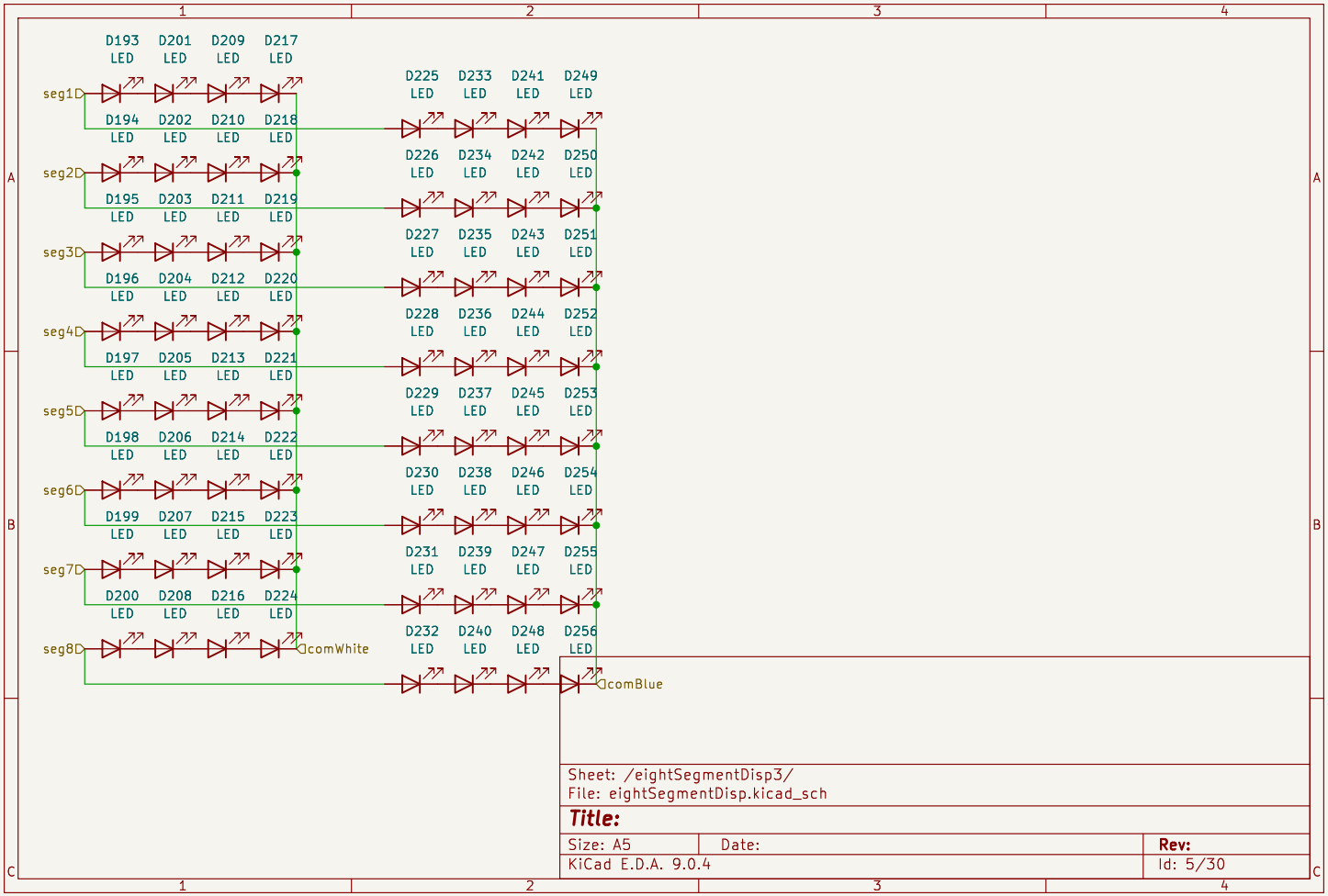
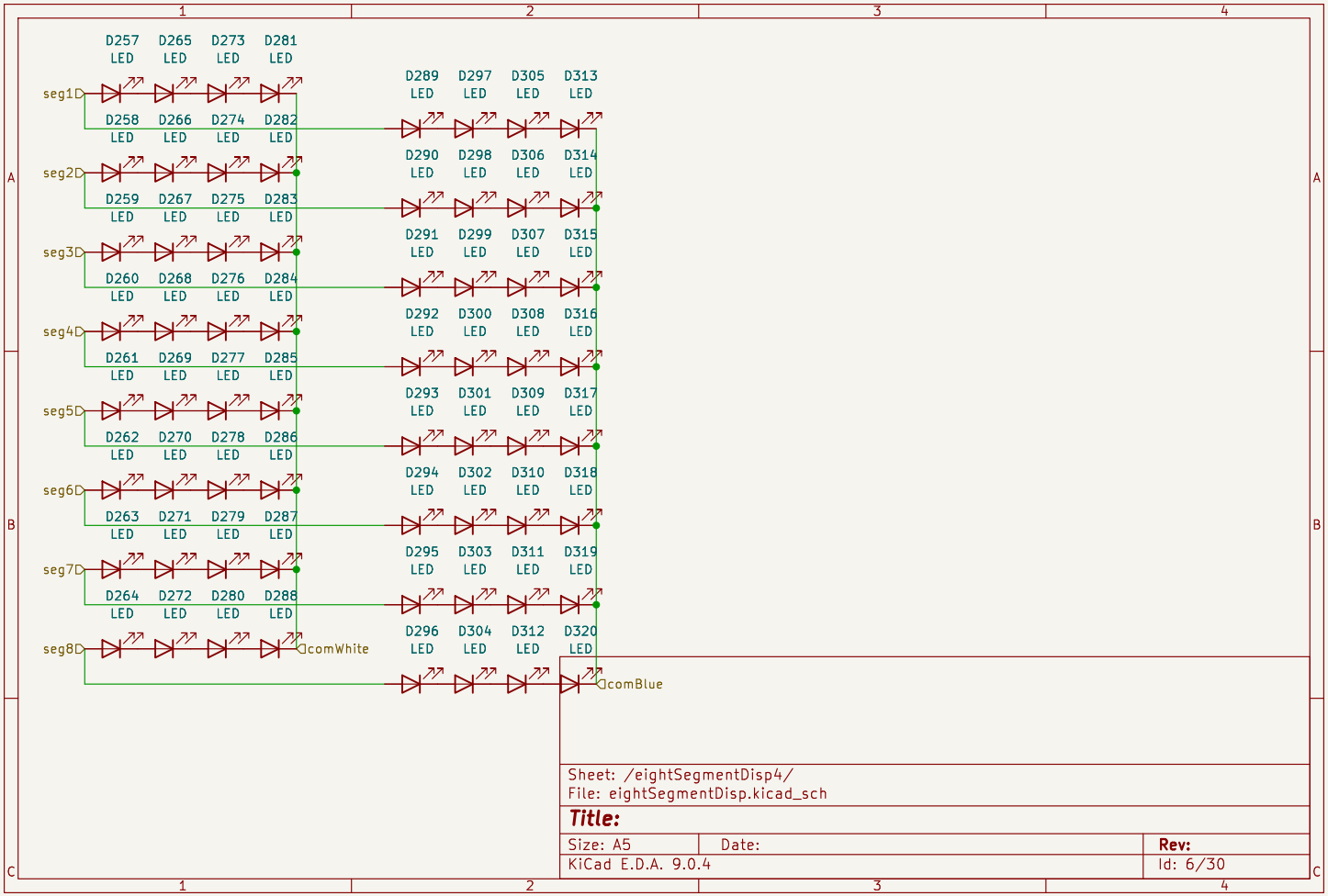

+5V
+3V3
C1
.1µF
C3
10-100µF
GND
RUN
3V3_EN
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
ADC_VREF
GPIO26_ADC0
GPIO27_ADC1
GPIO28_ADC2
AGND
VSYS
VBUS
3V3
A1
RaspberryPi_Pico_W
R1
LDR07
R2
R_US
R_Pack04_SIP
BAR1
HDSP-4830_2
+3V3 +5V
U19
TXS0104EPW
+5V MOD1
MT3608_Mod
C2
.1µF
74HCT595
MOSFETarray
File: MOSFETarray.kicad_sch
R6 220Ω
R7 220Ω
R8 220Ω
R9 220Ω
R10 220Ω
R11 220Ω
R12 220Ω
R13 220Ω
eightSegmentDisp
eightSegmentDisp1
eightSegmentDisp2
eightSegmentDisp3
eightSegmentDisp4
eightSegmentDisp5
comWhite
comBlue
File: eightSegmentDisp.kicad_sch
C4
.1µF
74HCT595
MOSFETarray1
File: MOSFETarray.kicad_sch
eightSegmentSingleColorDisp
eightSegmentSingleColorDisp1
eightSegmentSingleColorDisp2
eightSegmentSingleColorDisp3
File: eightSegmentSingleColorDisp.kicad_sch
+5V
U2
TPIC6595
SER_IN
SRCK
SRCLR
RCLK
G
LGND
PGND
SER_OUT
VCC
DRAIN0
DRAIN1
DRAIN2
DRAIN3
DRAIN4
DRAIN5
DRAIN6
DRAIN7
C5
.1µF
GND
U4
TPIC6595
C6
.1µF
130Ω11
R_US
U17
MAX7219
ISET
V+
SEG_A
SEG_B
SEG_C
SEG_D
SEG_E
SEG_F
SEG_G
SEG_DP
DIG_0
DIG_1
DIG_2
DIG_3
DIG_4
DIG_5
DIG_6
DIG_7
LOAD
CLK
DIN
DOUT
C7
.1µF
matrix7x7
C1+
C2+
C3+
C4+
C5+
C6+
C7+
R1
R2
R3
R4
R5
R6
R7
File: matrix7x7.kicad_sch
Sheet: /
File: DigitalWiFiClock.kicad_sch
Title:
Size: A3
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 1/30

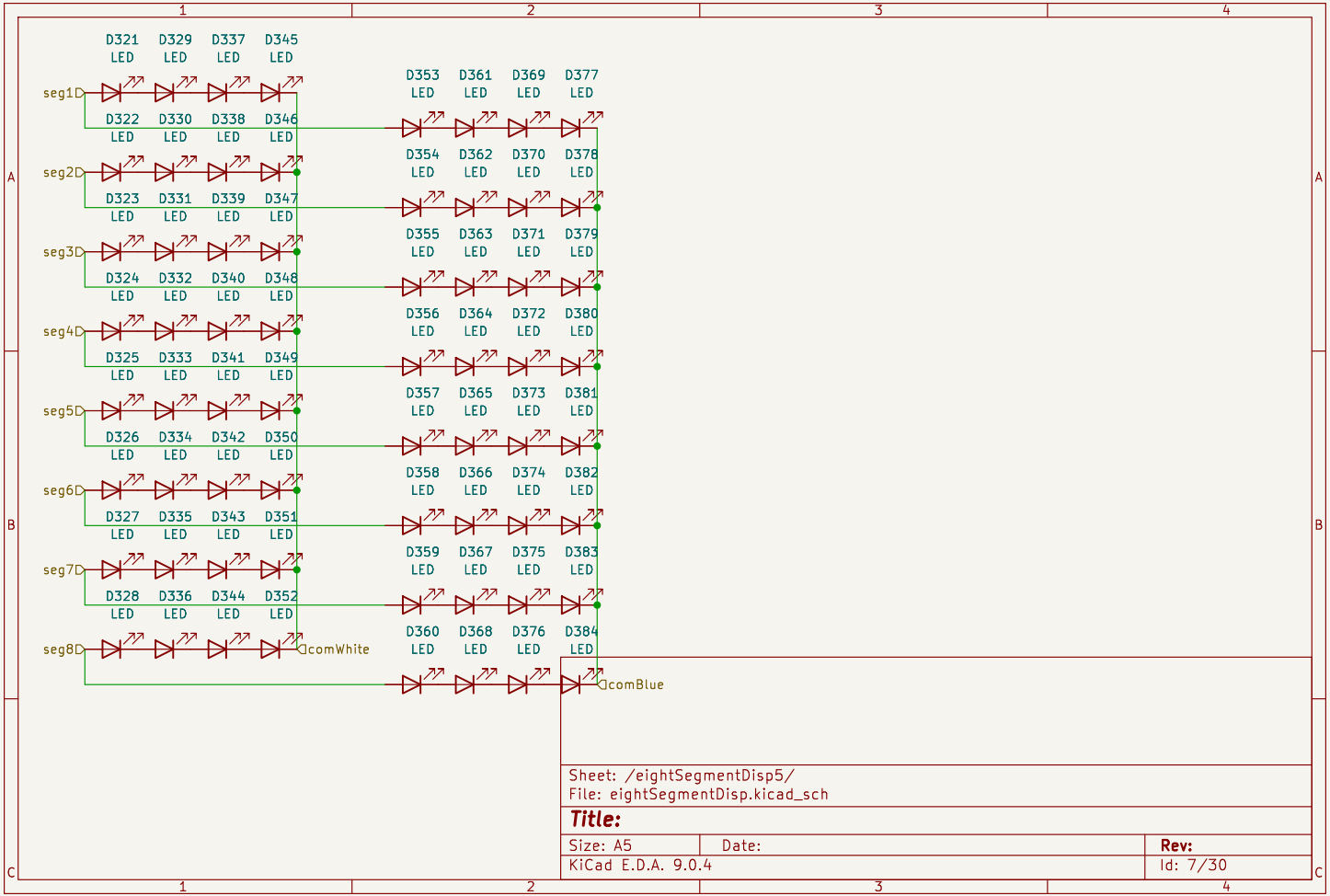

1
2
3
4
A
B
C
D5 LED
D6 LED
D7 LED
D8 LED
seg1
D9 LED
D10 LED
D11 LED
D12 LED
seg2
D13 LED
D14 LED
D15 LED
D16 LED
seg3
D17 LED
D20 LED
D23 LED
D26 LED
seg4
D18 LED
D21 LED
D24 LED
D27 LED
seg5
D19 LED
D22 LED
D25 LED
D28 LED
seg6
D29 LED
D31 LED
D33 LED
D35 LED
seg7
D30 LED
D32 LED
D34 LED
D36 LED
seg8
comWhite
D37 LED
D38 LED
D39 LED
D40 LED
D41 LED
D42 LED
D43 LED
D44 LED
D45 LED
D46 LED
D47 LED
D48 LED
D49 LED
D52 LED
D55 LED
D58 LED
D50 LED
D53 LED
D56 LED
D59 LED
D51 LED
D54 LED
D57 LED
D60 LED
D61 LED
D63 LED
D65 LED
D67 LED
D62 LED
D64 LED
D66 LED
D68 LED
comBlue
Sheet: /eightSegmentDisp/
File: eightSegmentDisp.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 2/30

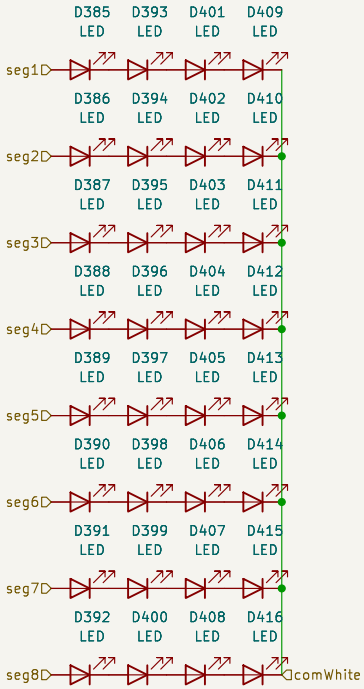

1
2
3
4
A
B
C
D1 LED
D73 LED
D81 LED
D89 LED
D97 LED
D105 LED
D113 LED
D121 LED
seg1
D2 LED
D74 LED
D82 LED
D90 LED
D98 LED
D106 LED
D114 LED
D122 LED
seg2
D3 LED
D75 LED
D83 LED
D91 LED
D99 LED
D107 LED
D115 LED
D123 LED
seg3
D4 LED
D76 LED
D84 LED
D92 LED
D100 LED
D108 LED
D116 LED
D124 LED
seg4
D69 LED
D77 LED
D85 LED
D93 LED
D101 LED
D109 LED
D117 LED
D125 LED
seg5
D70 LED
D78 LED
D86 LED
D94 LED
D102 LED
D110 LED
D118 LED
D126 LED
seg6
D71 LED
D79 LED
D87 LED
D95 LED
D103 LED
D111 LED
D119 LED
D127 LED
seg7
D72 LED
D80 LED
D88 LED
D96 LED
D104 LED
D112 LED
D120 LED
D128 LED
seg8
comWhite
comBlue
Sheet: /eightSegmentDisp1/
File: eightSegmentDisp.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 3/30


D129 D137 D145 D153
LED LED LED LED
seg1
D130 D138 D146 D154
LED LED LED LED
seg2
D131 D139 D147 D155
LED LED LED LED
seg3
D132 D140 D148 D156
LED LED LED LED
seg4
D133 D141 D149 D157
LED LED LED LED
seg5
D134 D142 D150 D158
LED LED LED LED
seg6
D135 D143 D151 D159
LED LED LED LED
seg7
D136 D144 D152 D160
LED LED LED LED
seg8
comWhite
D161 D169 D177 D185
LED LED LED LED
D162 D170 D178 D186
LED LED LED LED
D163 D171 D179 D187
LED LED LED LED
D164 D172 D180 D188
LED LED LED LED
D165 D173 D181 D189
LED LED LED LED
D166 D174 D182 D190
LED LED LED LED
D167 D175 D183 D191
LED LED LED LED
D168 D176 D184 D192
LED LED LED LED
comBlue
Sheet: /eightSegmentDisp2/
File: eightSegmentDisp.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 4/30

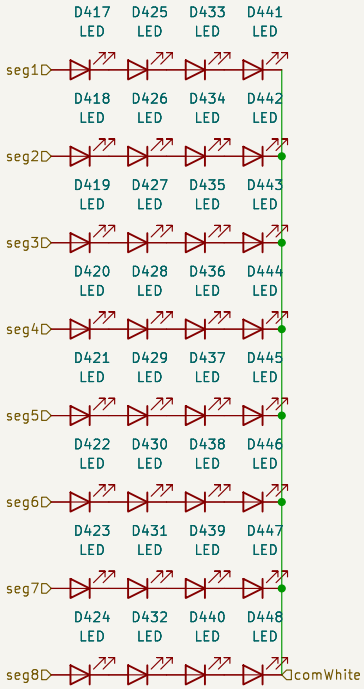

D193 D201 D209 D217
LED LED LED LED
seg1
D194 D202 D210 D218
LED LED LED LED
seg2
D195 D203 D211 D219
LED LED LED LED
seg3
D196 D204 D212 D220
LED LED LED LED
seg4
D197 D205 D213 D221
LED LED LED LED
seg5
D198 D206 D214 D222
LED LED LED LED
seg6
D199 D207 D215 D223
LED LED LED LED
seg7
D200 D208 D216 D224
LED LED LED LED
seg8
comWhite
D225 D233 D241 D249
LED LED LED LED
D226 D234 D242 D250
LED LED LED LED
D227 D235 D243 D251
LED LED LED LED
D228 D236 D244 D252
LED LED LED LED
D229 D237 D245 D253
LED LED LED LED
D230 D238 D246 D254
LED LED LED LED
D231 D239 D247 D255
LED LED LED LED
D232 D240 D248 D256
LED LED LED LED
comBlue
Sheet: /eightSegmentDisp3/
File: eightSegmentDisp.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 5/30


1
2
3
4
A
B
C
D257 LED
D265 LED
D273 LED
D281 LED
D289 LED
D297 LED
D305 LED
D313 LED
seg1
D258 LED
D266 LED
D274 LED
D282 LED
D290 LED
D298 LED
D306 LED
D314 LED
seg2
D259 LED
D267 LED
D275 LED
D283 LED
D291 LED
D299 LED
D307 LED
D315 LED
seg3
D260 LED
D268 LED
D276 LED
D284 LED
D292 LED
D300 LED
D308 LED
D316 LED
seg4
D261 LED
D269 LED
D277 LED
D285 LED
D293 LED
D301 LED
D309 LED
D317 LED
seg5
D262 LED
D270 LED
D278 LED
D286 LED
D294 LED
D302 LED
D310 LED
D318 LED
seg6
D263 LED
D271 LED
D279 LED
D287 LED
D295 LED
D303 LED
D311 LED
D319 LED
seg7
D264 LED
D272 LED
D280 LED
D288 LED
D296 LED
D304 LED
D312 LED
D320 LED
seg8
comWhite
comBlue
Sheet: /eightSegmentDisp4/
File: eightSegmentDisp.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 6/30

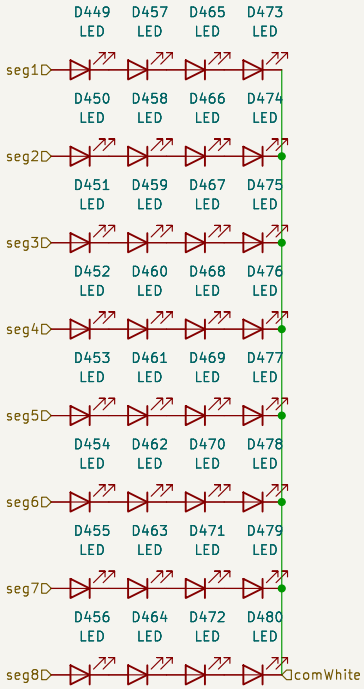

1
2
3
4
A
B
C
D321 LED
D329 LED
D337 LED
D345 LED
D322 LED
D330 LED
D338 LED
D346 LED
D323 LED
D331 LED
D339 LED
D347 LED
D324 LED
D332 LED
D340 LED
D348 LED
D325 LED
D333 LED
D341 LED
D349 LED
D326 LED
D334 LED
D342 LED
D350 LED
D327 LED
D335 LED
D343 LED
D351 LED
D328 LED
D336 LED
D344 LED
D352 LED
D353 LED
D361 LED
D369 LED
D377 LED
D354 LED
D362 LED
D370 LED
D378 LED
D355 LED
D363 LED
D371 LED
D379 LED
D356 LED
D364 LED
D372 LED
D380 LED
D357 LED
D365 LED
D373 LED
D381 LED
D358 LED
D366 LED
D374 LED
D382 LED
D359 LED
D367 LED
D375 LED
D383 LED
D360 LED
D368 LED
D376 LED
D384 LED
seg1
seg2
seg3
seg4
seg5
seg6
seg7
seg8
comWhite
comBlue
Sheet: /eightSegmentDisp5/
File: eightSegmentDisp.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 7/30



Sheet: /eightSegmentSingleColorDisp/		
File: eightSegmentSingleColorDisp.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 8/30



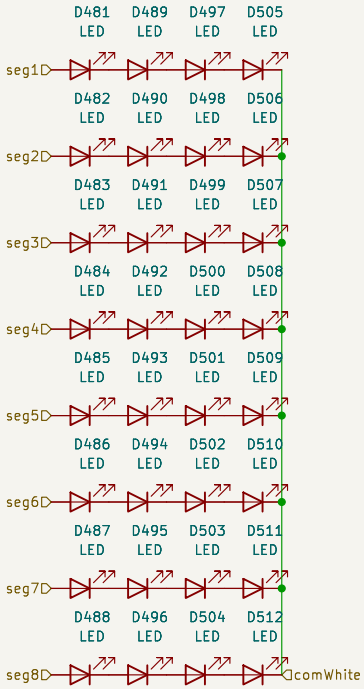
Sheet: /eightSegmentSingleColorDisp1/		
File: eightSegmentSingleColorDisp.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 9/30



Sheet: /eightSegmentSingleColorDisp2/
File: eightSegmentSingleColorDisp.kicad_sch

Title:

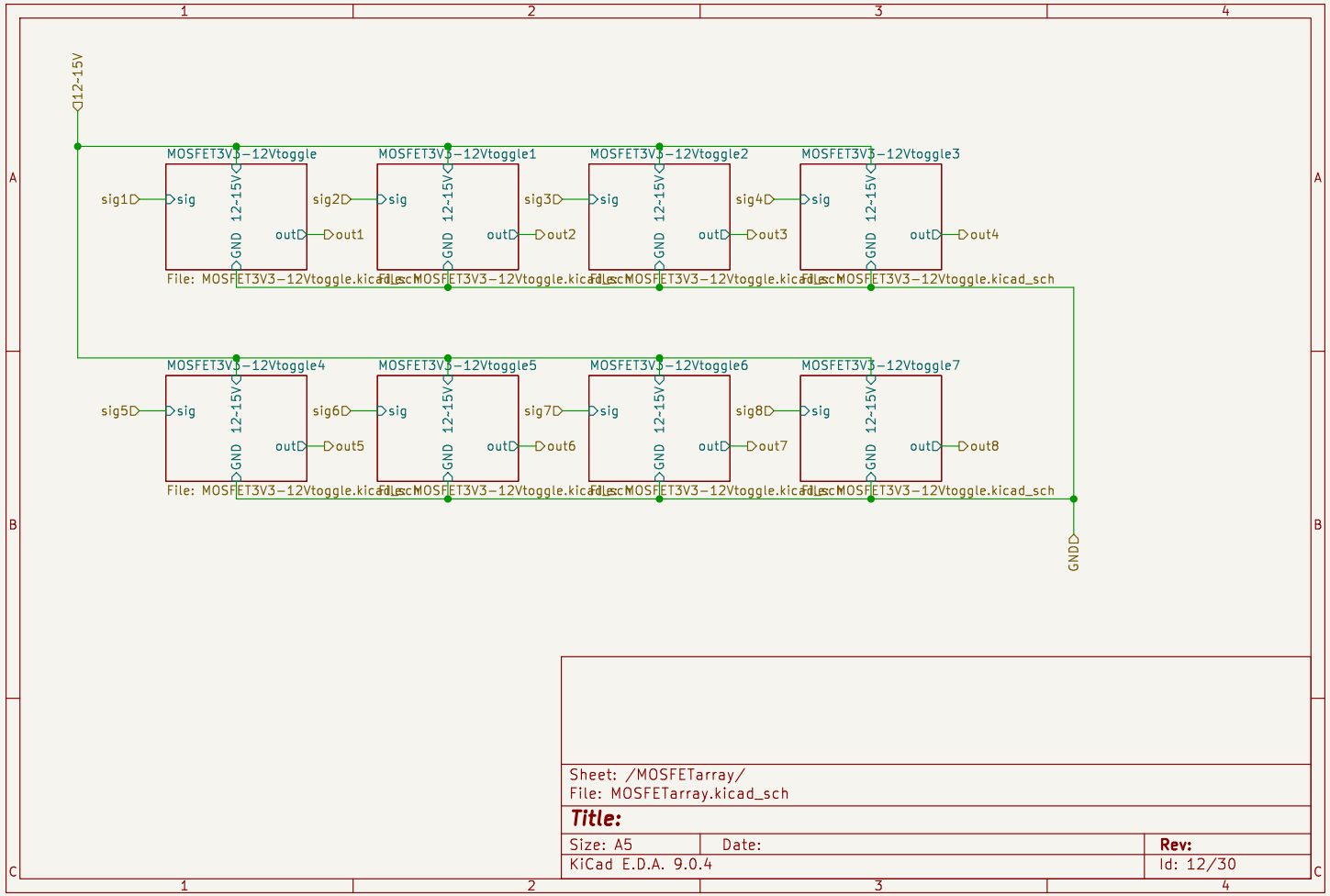
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 10/30

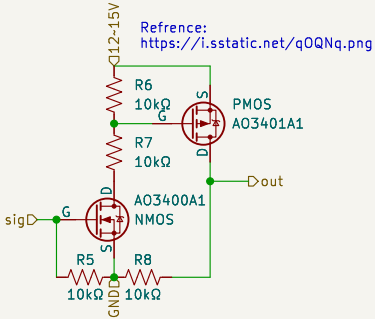


Sheet: /eightSegmentSingleColorDisp3/
File: eightSegmentSingleColorDisp.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 11/30

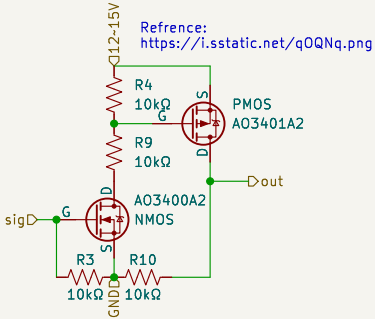

12-15V
MOSFET3V3-12Vtoggle
MOSFET3V3-12Vtoggle1
MOSFET3V3-12Vtoggle2
MOSFET3V3-12Vtoggle3
MOSFET3V3-12Vtoggle4
MOSFET3V3-12Vtoggle5
MOSFET3V3-12Vtoggle6
MOSFET3V3-12Vtoggle7
sig1
sig2
sig3
sig4
sig5
sig6
sig7
sig8
sig
GND
out
out1
out2
out3
out4
out5
out6
out7
out8
File: MOSFET3V3-12Vtoggle.kicad_sch
GNDD
Sheet: /MOSFETarray/
File: MOSFETarray.kicad_sch
Title:
Size: A5
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 12/30



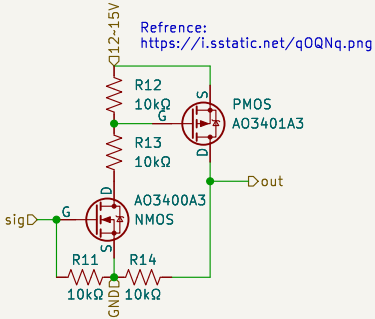
Sheet: /MOSFETarray/MOSFET3V3-12Vtoggle/
File: MOSFET3V3-12Vtoggle.kicad_sch

Title:

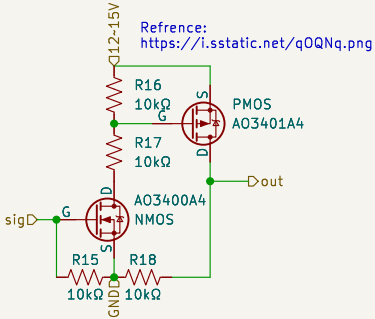
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 13/30



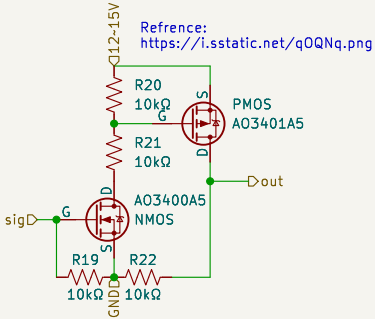
Sheet: /MOSFETarray/MOSFET3V3−12Vtoggle1/		
File: MOSFET3V3−12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 14/30



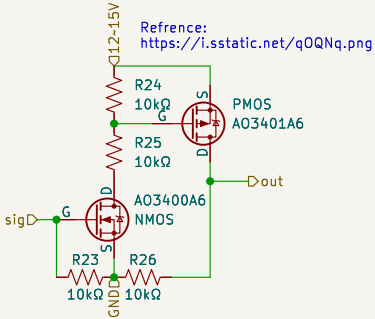
Sheet: /MOSFETarray/MOSFET3V3−12Vtoggle4/		
File: MOSFET3V3−12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 15/30



Sheet: /MOSFETarray/MOSFET3V3−12Vtoggle2/		
File: MOSFET3V3−12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 16/30



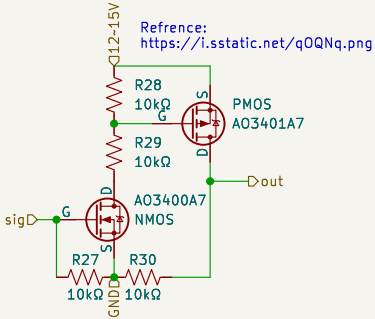
Sheet: /MOSFETarray/MOSFET3V3-12Vtoggle3/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 17/30



Sheet: /MOSFETarray/MOSFET3V3-12Vtoggle5/
File: MOSFET3V3-12Vtoggle.kicad_sch

Title:

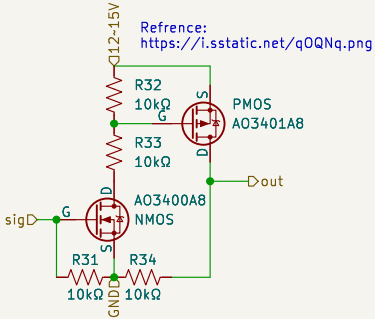
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 18/30



Sheet: /MOSFETarray/MOSFET3V3-12Vtoggle6/
File: MOSFET3V3-12Vtoggle.kicad_sch

Title:

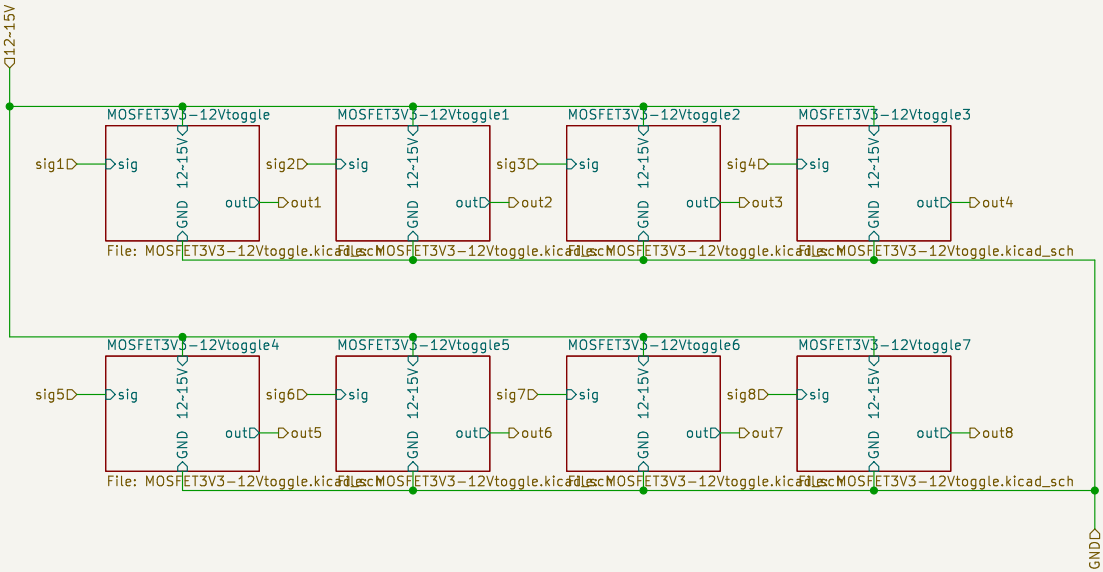
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 19/30



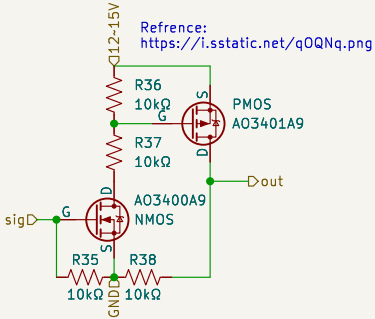
Sheet: /MOSFETarray/MOSFET3V3-12Vtoggle7/
File: MOSFET3V3-12Vtoggle.kicad_sch

Title:

Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 20/30



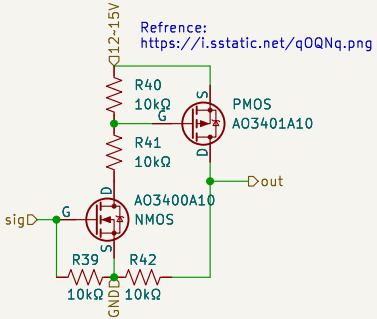
Sheet: /MOSFETarray1/ File: MOSFETarray.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 21/30



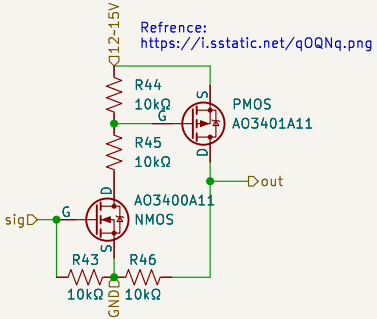
Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle/
File: MOSFET3V3-12Vtoggle.kicad_sch

Title:

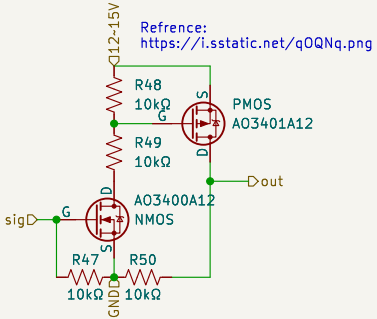
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 22/30



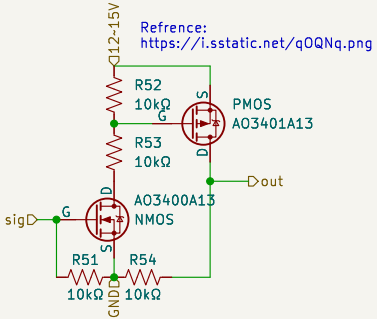
Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle4/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 23/30



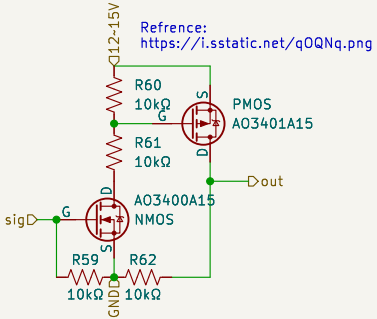
Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle1/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 24/30



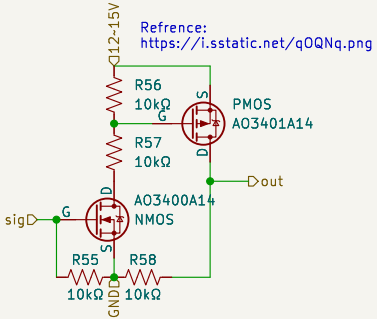
Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle5/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 25/30



Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle2/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 26/30



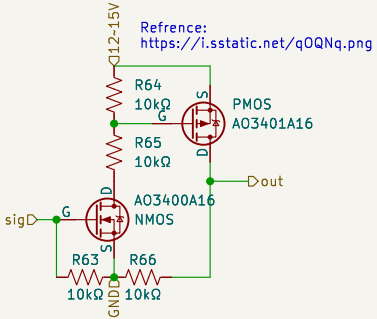
Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle3/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 27/30



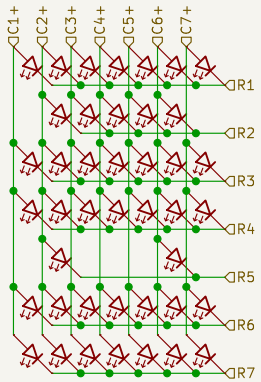
Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle6/
File: MOSFET3V3-12Vtoggle.kicad_sch

Title:

Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 28/30



Sheet: /MOSFETarray1/MOSFET3V3-12Vtoggle7/		
File: MOSFET3V3-12Vtoggle.kicad_sch		
Title:		
Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 29/30



Sheet: /matrix7x7/
File: matrix7x7.kicad_sch

Title:

Size: A5	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 30/30