P1
R1 R2 R3 R4 R5 R6 R7 R8   R17 R18 R19 R20 R21 R22 R23 R24   R33 R34 R35 R36 R37 R38 R39 R40   R49 R50 R51 R52 R53 R54 R55 R56

P3

P5

P7

U1

P9

U3

U5

U7

U2

U4

U6

U8

R16 R15 R14 R13 R12 R11 R10 R9   R32 R31 R30 R29 R28 R27 R26 R25   R48 R47 R46 R45 R44 R43 R42 R41   R64 R63 R62 R61 R60 R59 R58 R57

U9

P2

P4

P6

P8

P10

Comment	Description	Designator	Footprint	LibRef	Quantity
Anode 1	Header, 8-Pin	P1	HDR1X8	Header 8	1
Anode 2	Header, 8-Pin	P2	HDR1X8	Header 8	1
Anode 3	Header, 8-Pin	P3	HDR1X8	Header 8	1
Anode 4	Header, 8-Pin	P4	HDR1X8	Header 8	1
Anode 5	Header, 8-Pin	P5	HDR1X8	Header 8	1
Anode 6	Header, 8-Pin	P6	HDR1X8	Header 8	1
Anode 7	Header, 8-Pin	P7	HDR1X8	Header 8	1
Anode 8	Header, 8-Pin	P8	HDR1X8	Header 8	1
ARDUINO UNO	Header, 3-Pin	P9	HDR1X3	Header 3	1
Cathode	Header, 8-Pin	P10	HDR1X8	Header 8	1
2N2222A	Bipolar (BJT) Transistor NPN 40 V 600 mA 250MHz 625 mW Through Hole TO-92	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16	TO92254P470H750-3	2N2222A	16
Res1	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64	AXIAL-0.3	Res1	64
74HC595N,112	Shift Shift Register 1 Element 8 Bit 16-DIP	U1, U2, U3, U4, U5, U6, U7, U8, U9	DIP254P762X420-16	74HC595N,112	9