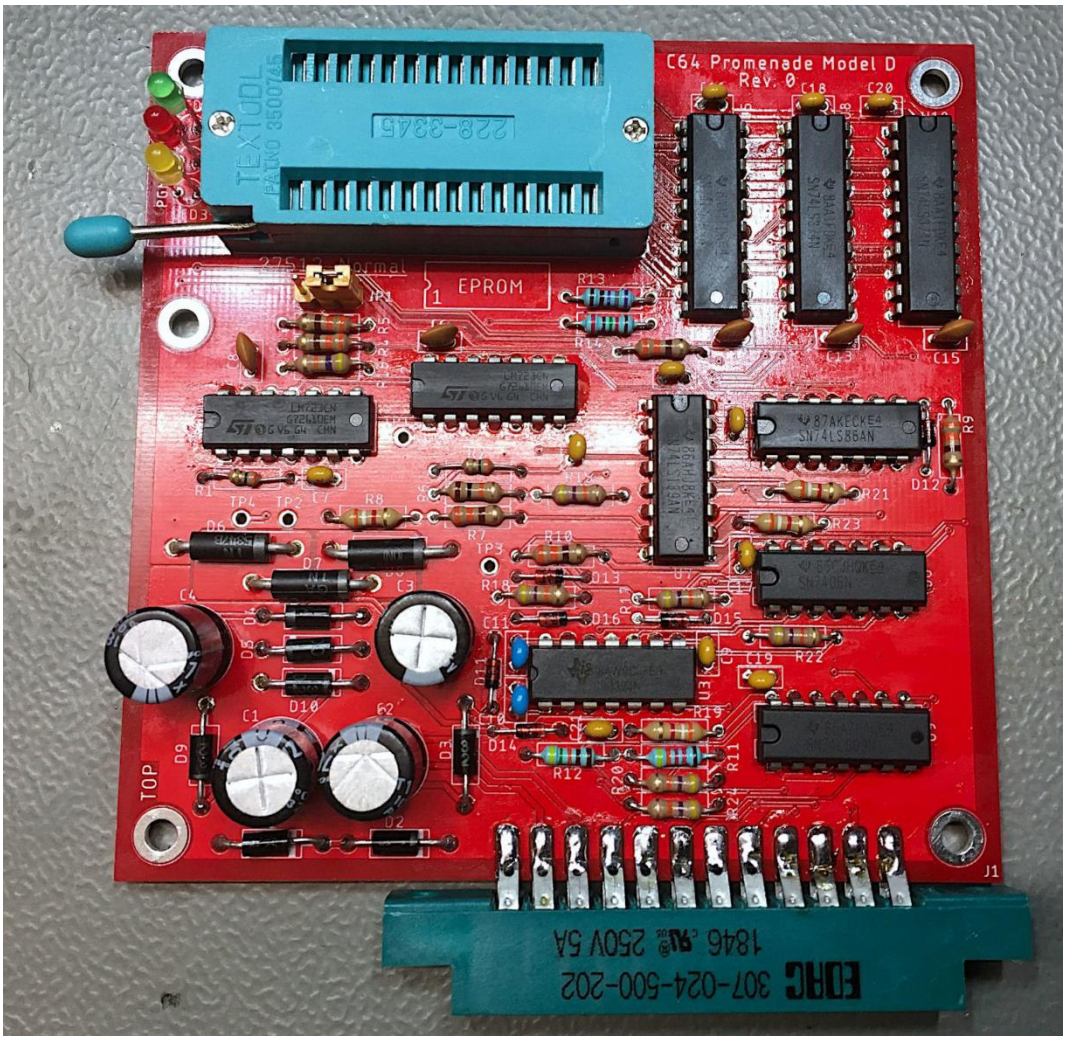
Project Documentation

C64 Promenade Model D

Project number: 129

Revision: 0

Date: 20.07.2019



C64 Promenade Model D Rev. 0

Module Description

The Promenade Model D is an EPROM programmer for the Commodore C64. The Model C is originally created by Jason-Ranheim in the 1980s. Model D is a remake of it, the layout and geometry is changed, though. The blocking of the tape port is fixed. Further, some 100n bypass capacitors were added.

This project was executed in cooperation with Greg Nacu (c64os.com). He asked me for making a layout for it. Greg has built and tested it, AFAIK with many but not all EPROM types listed.

For the documentation, please consult this website: http://c64os.com/post/promenadec1

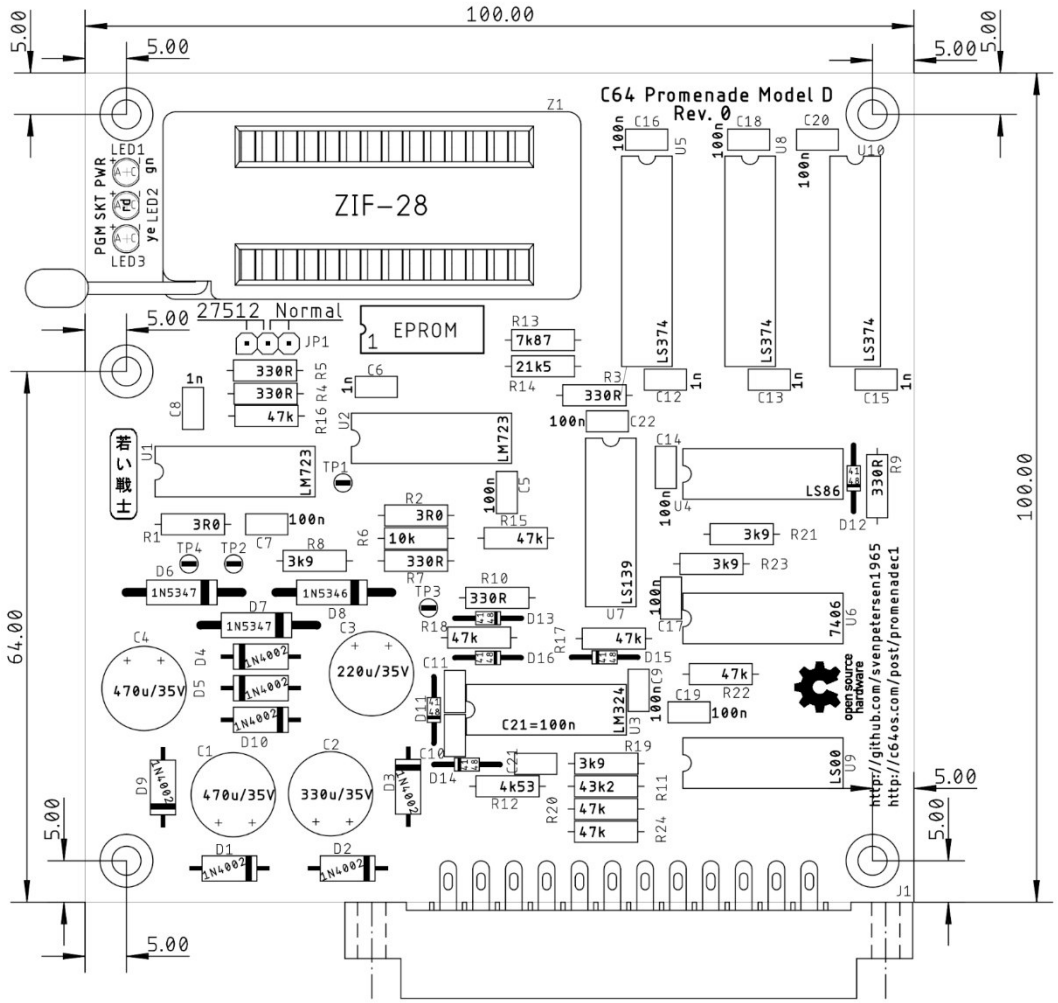
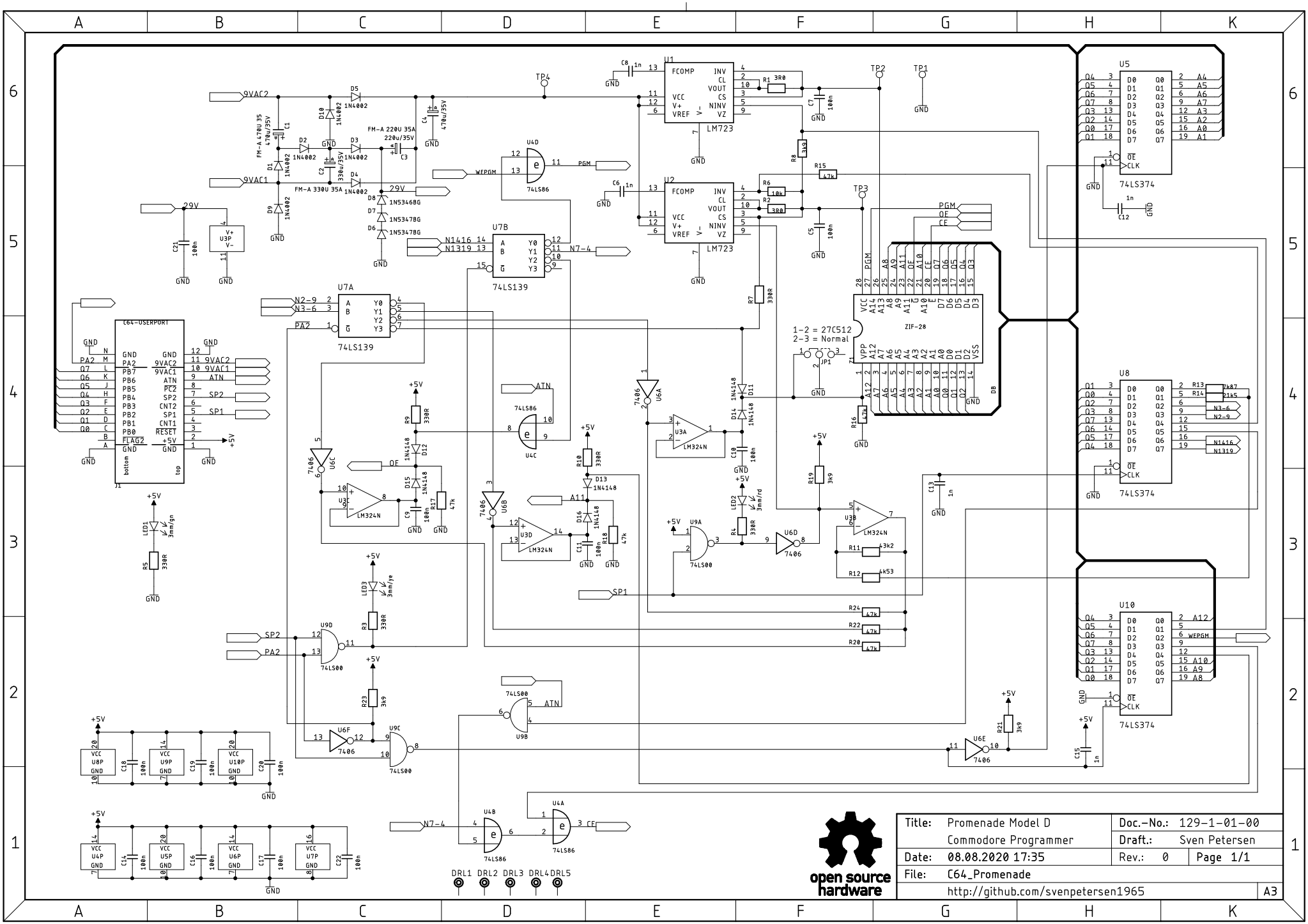
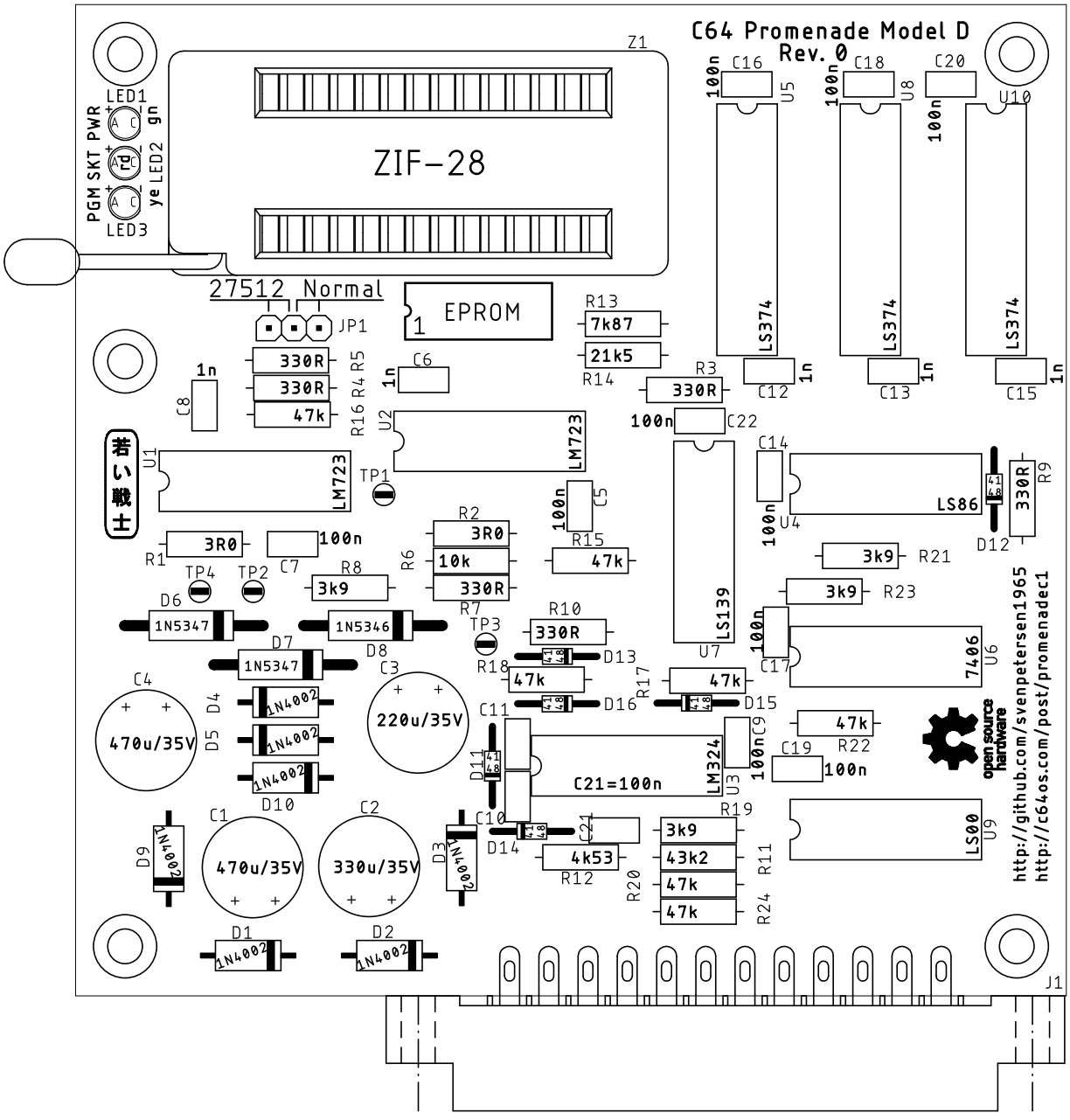


Figure 1: Dimensions of the Promenade Model D

This project is provided “as is”. I own a prototype, which was provided by Greg.


9VAC2
9VAC1
29V
FM-A 470U 35
470u/35V
FM-A 220U 35A
220u/35V
FM-A 330U 35A
330u/35V
1N4002
1N5346BG
1N5347BG
LM723
74LS86
74LS139
74LS374
74LS00
7406
LM324N
ZIF-28
1-2 = 27C512
2-3 = Normal
C64-USERPORT
PGM
OE
CE
WEPGM
ATN
A11
SP1
SP2
PA2
N7-4
N1416
N1319
DRL1 DRL2 DRL3 DRL4 DRL5
Title: Promenade Model D
Commodore Programmer
Doc.-No.: 129-1-01-00
Draft.: Sven Petersen
Date: 08.08.2020 17:35
Rev.: 0
Page 1/1
File: C64_Promenade
http://github.com/svenpetersen1965
A3
open source hardware

Sven Petersen 2019	Doc.-No.: 129-2-01-00	
	Cu: 35µ	Cu-Layers: 2
C64_Promenade		
08.08.2020 18:06		Rev.: 0
placement component side		



Sven Petersen 2019	Doc.-No.: 129-2-01-00	
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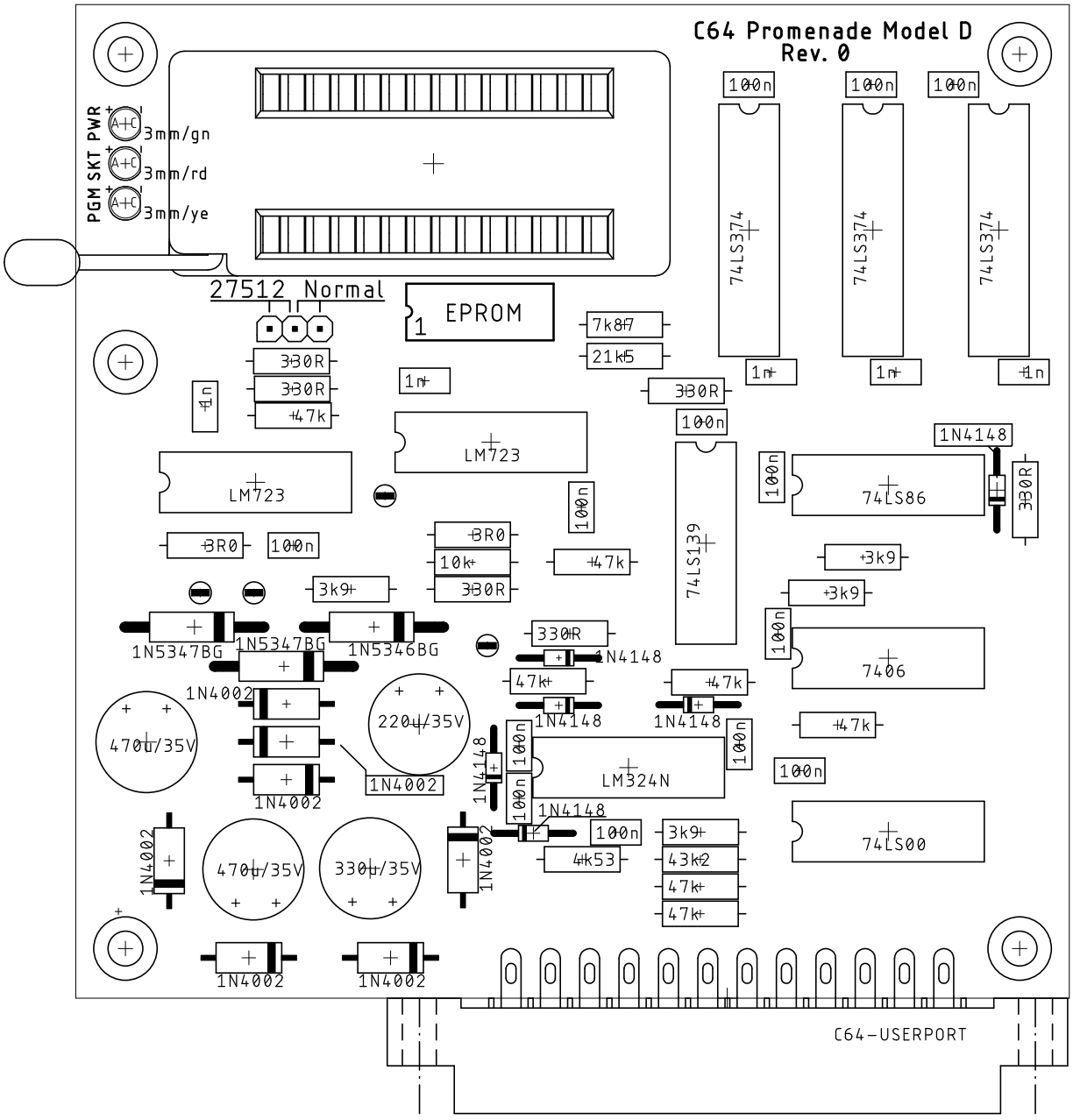
C64_Promenade		
20.07.2019 12:05		Rev.: 0
placement component side		



Sven Petersen 2019	Doc.-No.: 129-2-01-00	
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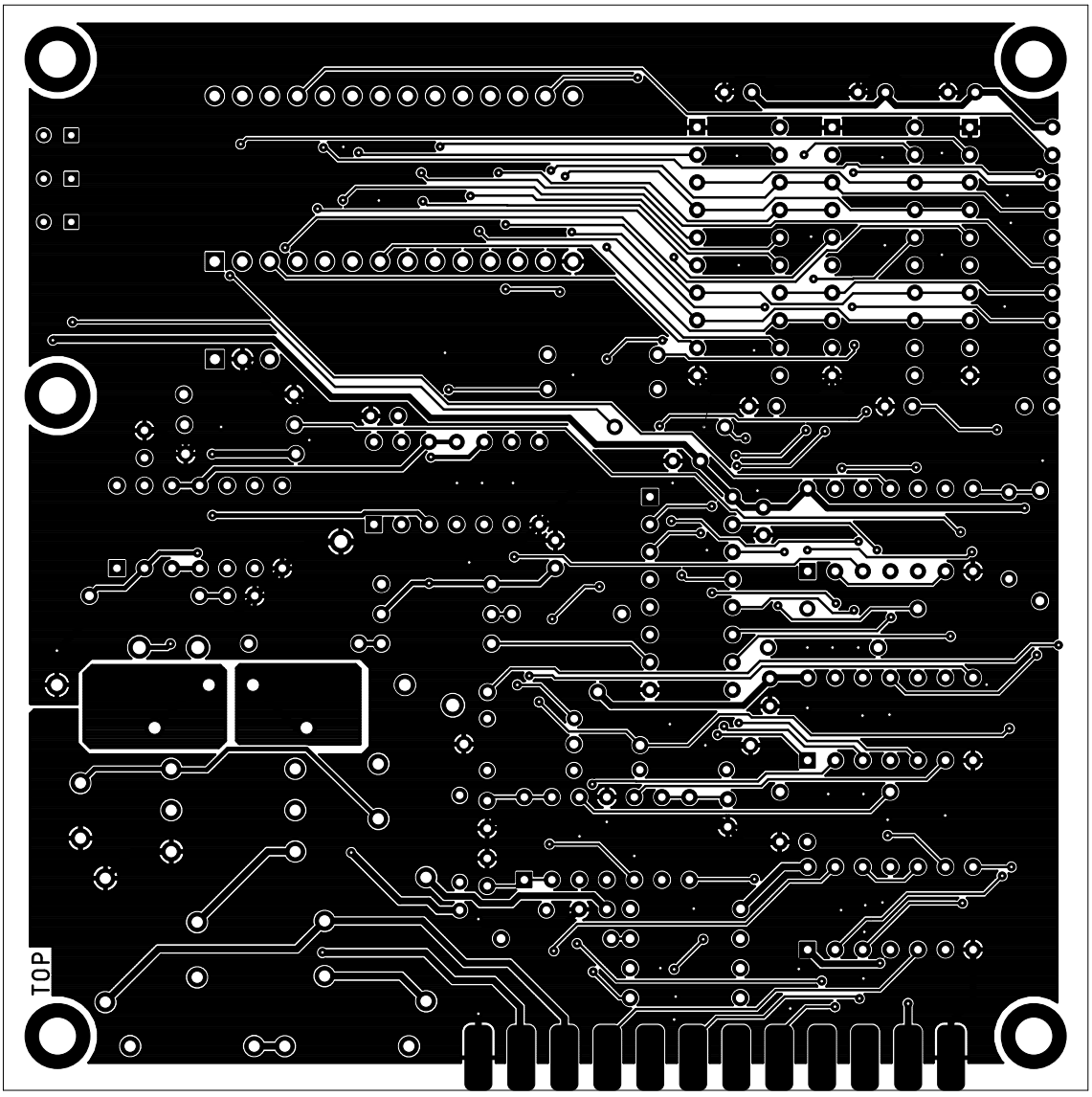
C64_Promenade		
20.07.2019 12:08		Rev.: 0
top		



Sven Petersen 2019	**Doc.-No.:** 129-2-01-00	
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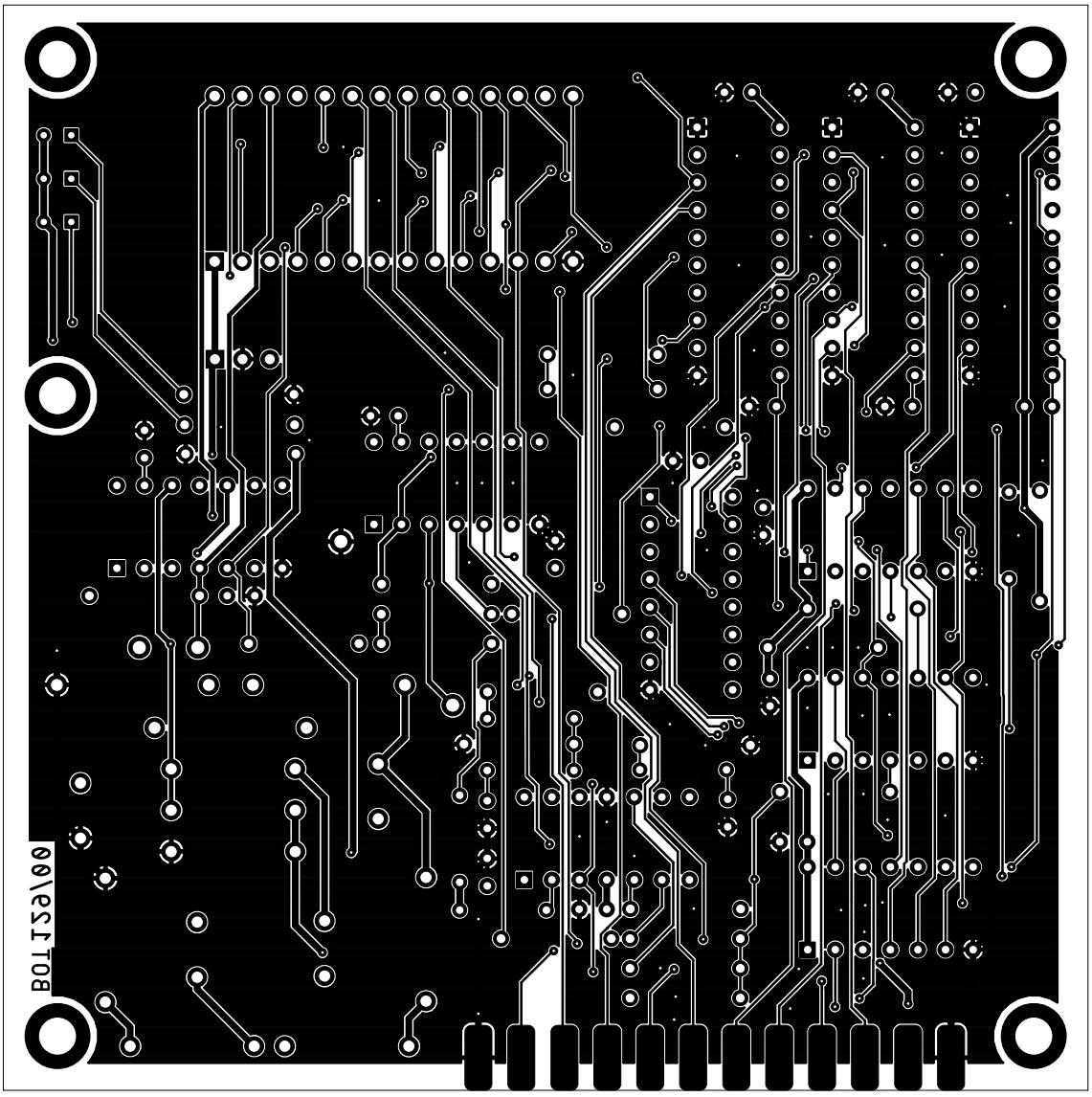
C64_Promenade		
20.07.2019 12:09		**Rev.:** 0
bottom		



Sven Petersen 2019	Doc.-No.: 129-2-01-00	
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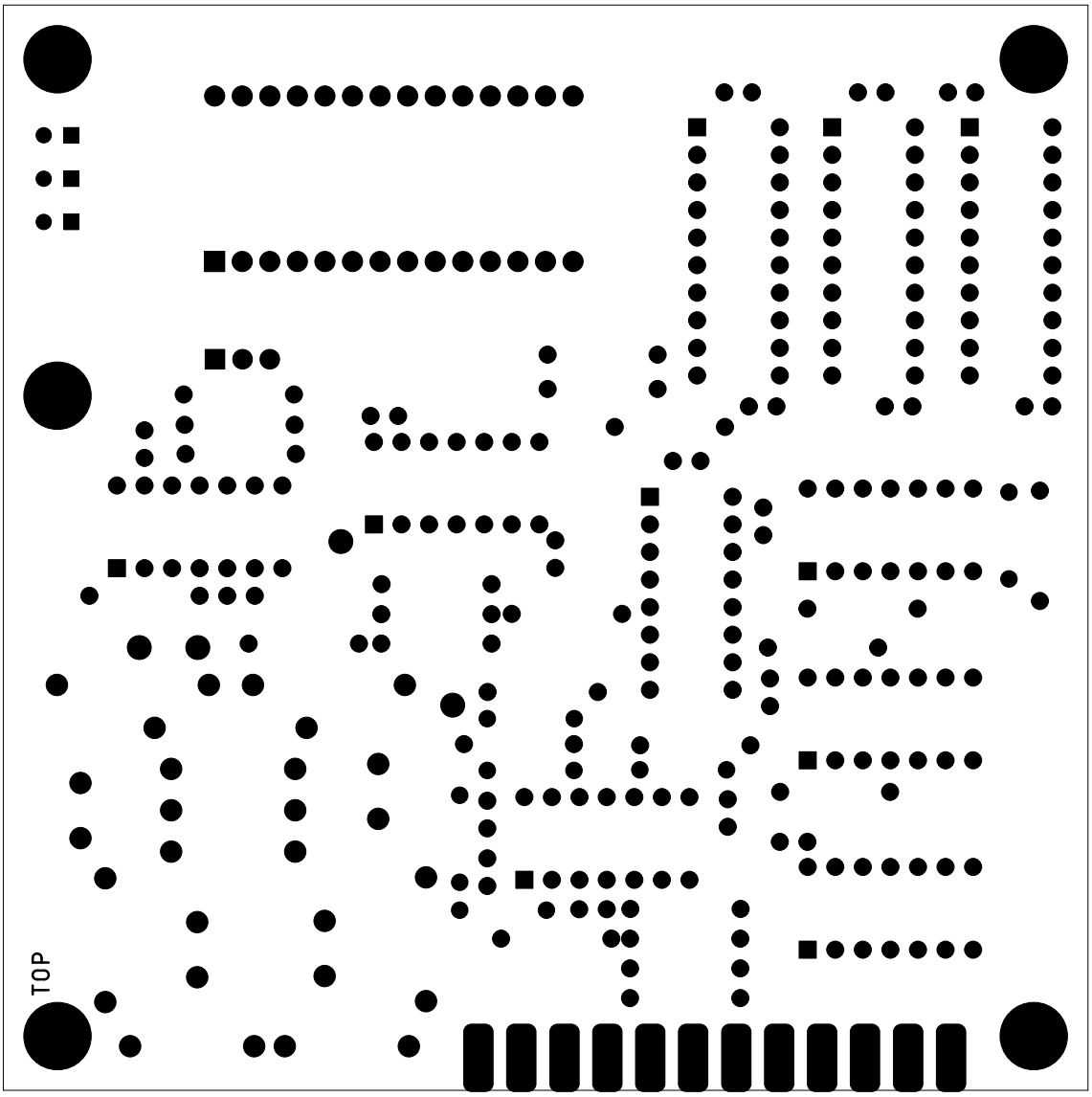
C64_Promenade		
20.07.2019 12:09		Rev.: 0
stopmask component side		



Sven Petersen 2019	Doc.-No.: 129-2-01-00	
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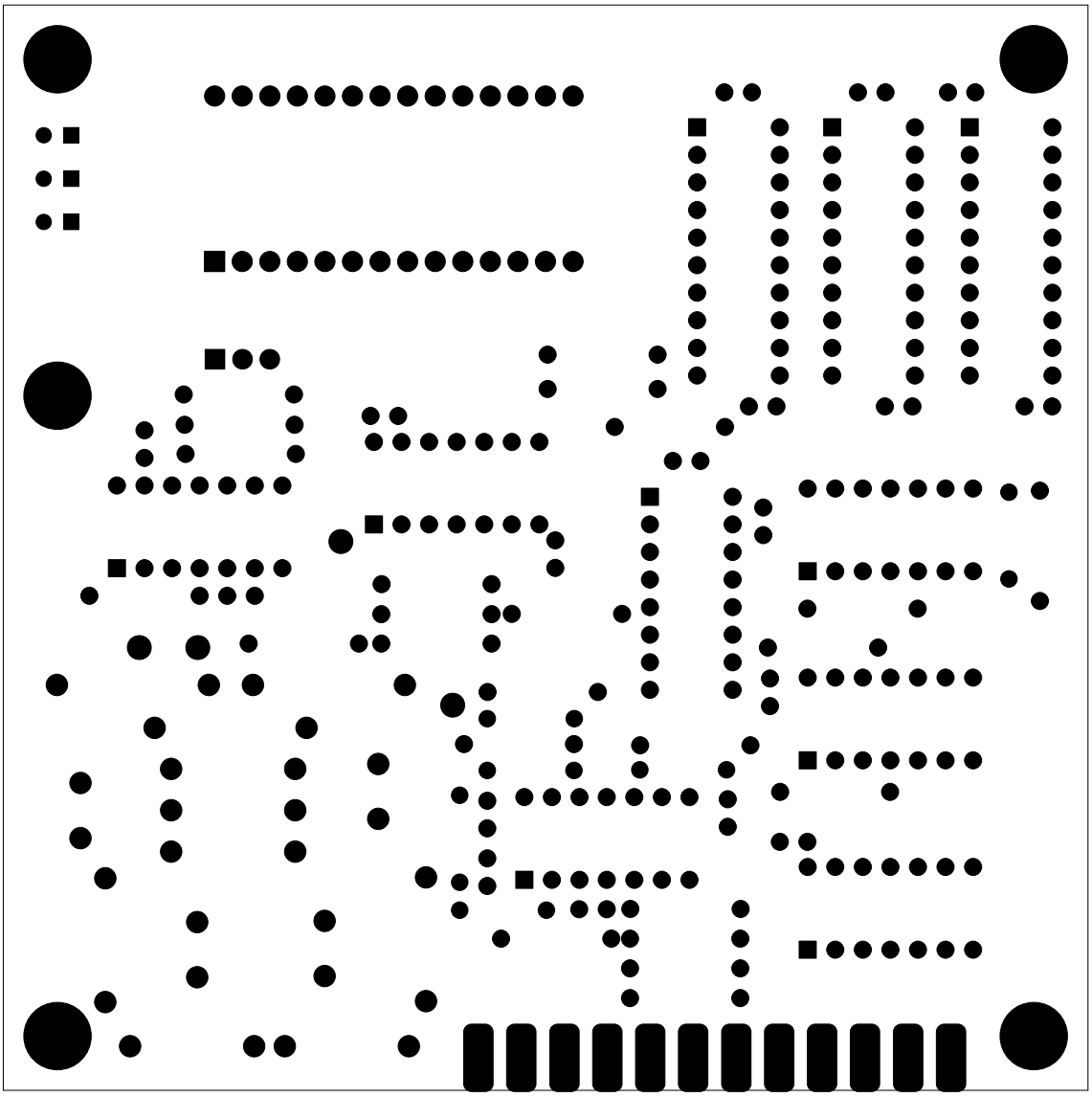
C64_Promenade		
20.07.2019 12:09		Rev.: 0
stopmask solder side		



Sven Petersen 2019	Doc.-No.: 129-2-01-00	
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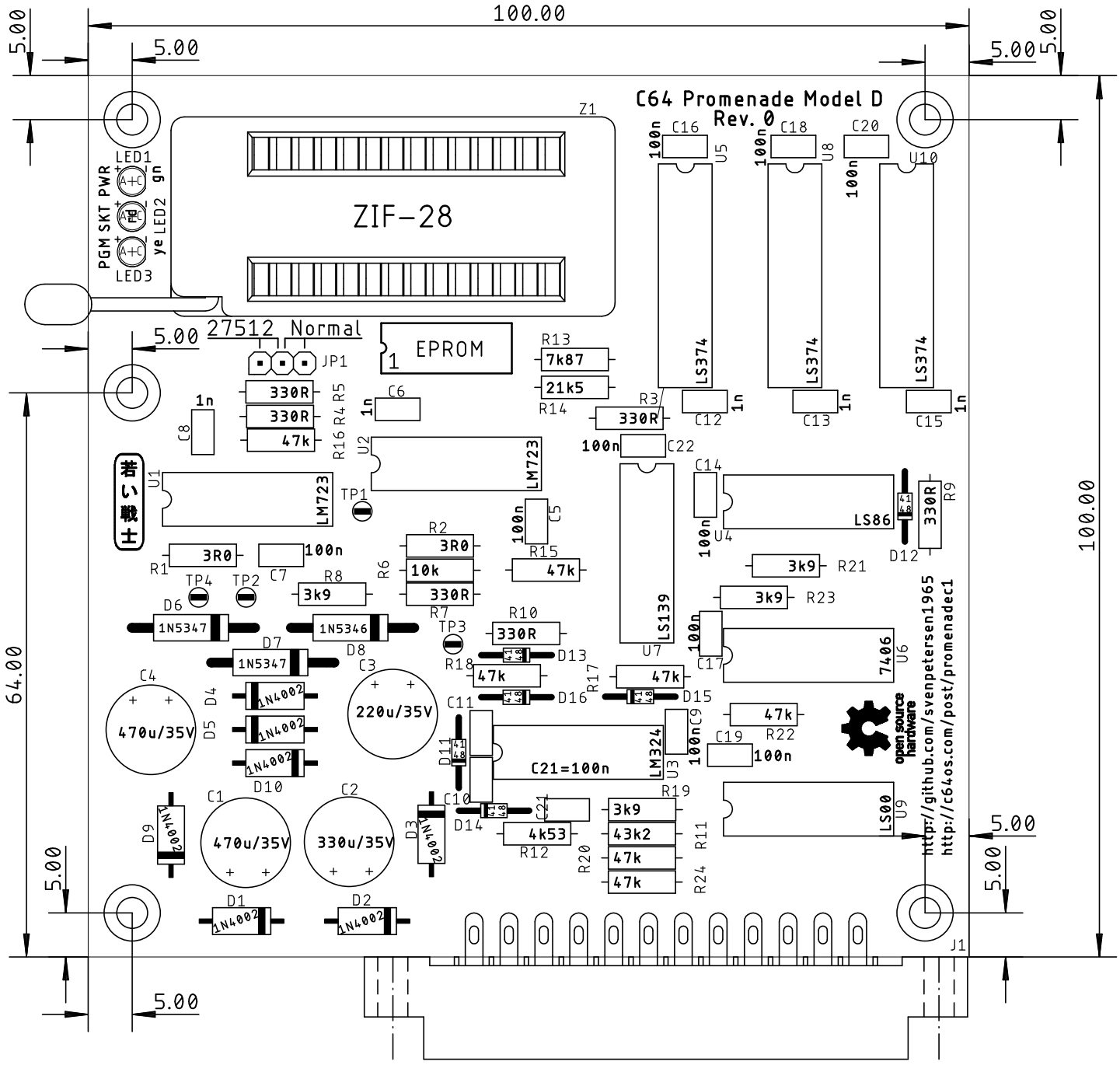
C64_Promenade		
08.08.2020 18:06		Rev.: 0
placement component side measures		



C64 Promenade Rev. 0
Bill of Material Rev. 0.0

Pos.	Qty	Value	Footprint	Ref.-No.	Comment
1	1	129-2-01-00	2 Layer	PCB Rev. 0	2 layer, Cu 35µ, HASL, 100 x 100, 1.6mm FR4
2	2	470u/35V	C10/5,0	C1, C4	El. cap., diam. 10mm, pitch 5,0mm, 105°C
3	1	330u/35V	C10/5,0	C2	El. cap., diam. 10mm, pitch 5,0mm, 105°C
4	1	220u/35V	C10/5,0	C3	El. cap., diam. 10mm, pitch 5,0mm, 105°C
5	13	100n	C-2,5	C5, C7, C9, C10, C11, C14, C16, C17, C18, C19, C20, C21, C22	cer. cap, 2.5mm pitch
6	5	1n	C-2,5	C6, C8, C12, C13, C15	cer. cap, 2.5mm pitch
7	7	1N4002	DO-41	D1, D2, D3, D4, D5, D9, D10	
8	6	1N4148	DO-35	D11, D12, D13, D14, D15, D16	
9	2	1N5347BG	017AA	D6, D7	On-Semi, Zener 10V, 5W
10	1	1N5346BG	017AA	D8	On-Semi, Zener 9.1V, 5W
11	1	2x12, 3,96mm	USERPORT	J1	Edge connector for C64 User Port
12	1	pinheader 3p, 2.54mm	1X03	JP1	plus 1 jumper
13	1	3mm/gn	3MM	LED1	led 3mm, green
14	1	3mm/rd	3mm	LED2	led 3mm, red
15	1	3mm/ye	3MM	LED3	led 3mm, yellow
16	2	3R0	R-10	R1, R2	Resistor 1/4W, 5%
17	1	43k2	R-10	R11	Resistor 1/4W, 1%
18	1	4k53	R-10	R12	Resistor 1/4W, 1%
19	1	7k87	R-10	R13	Resistor 1/4W, 1%
20	1	21k5	R-10	R14	Resistor 1/4W, 1%
21	7	47k	R-10	R15, R16, R17, R18, R20, R22, R24	Resistor 1/4W, 5%
22	6	330R	R-10	R3, R4, R5, R7, R9, R10	Resistor 1/4W, 5%
23	1	10k	R-10	R6	Resistor 1/4W, 5%
24	4	3k9	R-10	R8, R19, R21, R23	Resistor 1/4W, 5%
25	2	LM723	DIL-14	U1, U2	

C64 Promenade Rev. 0
Bill of Material Rev. 0.0

Pos.	Qty	Value	Footprint	Ref.-No.	Comment
26	1	LM324N	DIL-14	U3	
27	1	SN74LS86	DIL-14	U4	
28	3	SN74LS374	DIL-20	U5, U8, U10	
29	1	SN7406N	DIL-14	U6	
30	1	SN74LS139	DIL-16	U7	
31	1	SN74LS00	DIL-14	U9	
32	1	ZIF-28	ZIF28	Z1	ZIF socket, 28p