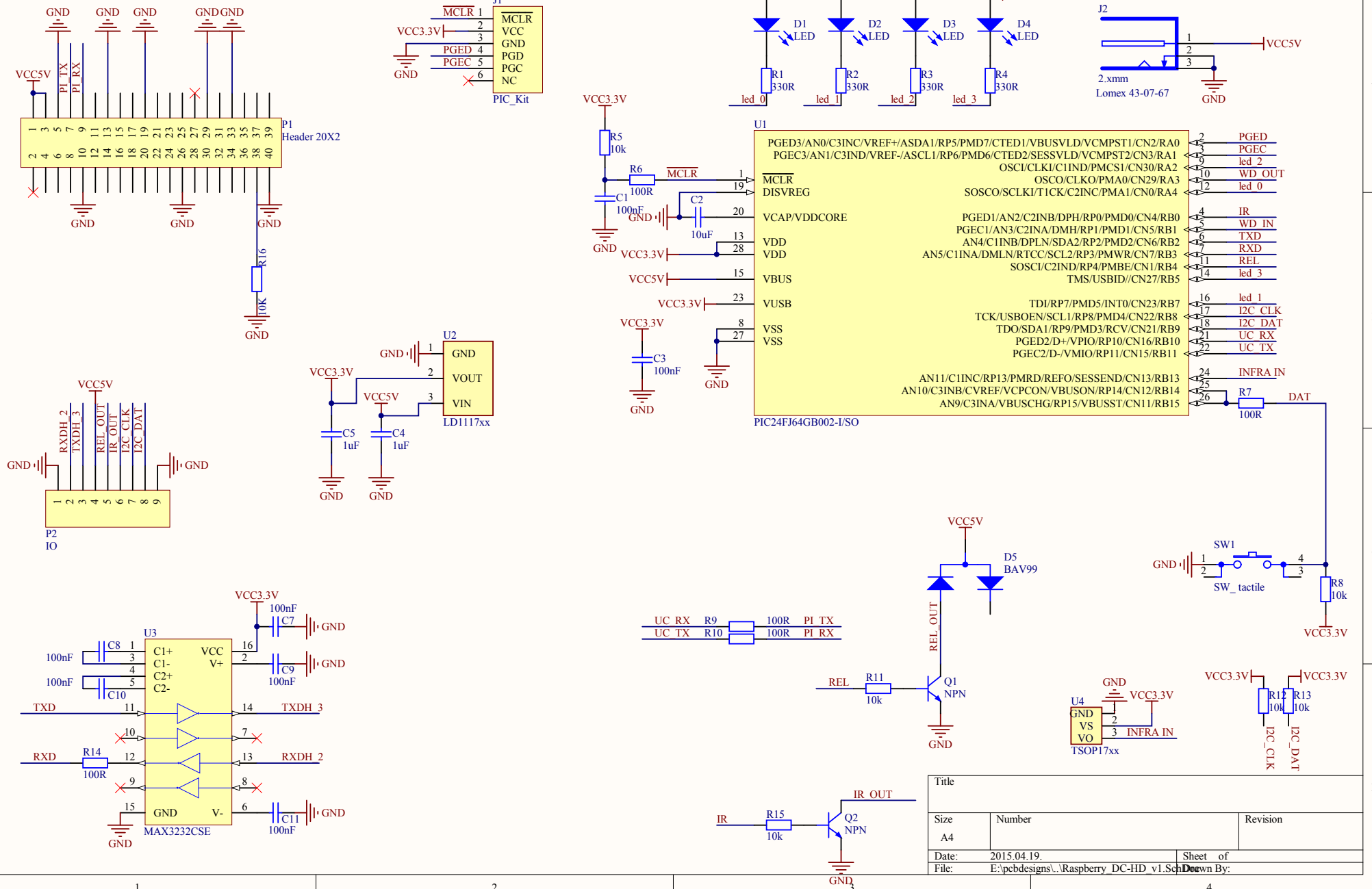
P1
Header 20X2
PI_TX
PI_RX
P2
IO
RXDH_2
TXDH_3
REL_OUT
IR_OUT
I2C_CLK
I2C_DAT
J1
PIC_Kit
MCLR
PGED_4
PGEC_5
U1
PIC24FJ64GB002-I/SO
PGED3/AN0/C3INC/VREF+/ASDA1/RP5/PMD7/CTED1/VBUSVLD/VCMPST1/CN2/RA0
PGEC3/AN1/C3IND/VREF-/ASCL1/RP6/PMD6/CTED2/SESSVLD/VCMPST2/CN3/RA1
OSCI/CLKI/C1IND/PMCS1/CN30/RA2
OSCO/CLKO/PMA0/CN29/RA3
SOSCO/SCLKI/T1CK/C2INC/PMA1/CN0/RA4
PGED1/AN2/C2INB/DPH/RP0/PMD0/CN4/RB0
PGEC1/AN3/C2INA/DMH/RP1/PMD1/CN5/RB1
AN4/C1INB/DPLN/SDA2/RP2/PMD2/CN6/RB2
AN5/C1INA/DMLN/RTCC/SCL2/RP3/PMWR/CN7/RB3
SOSCI/C2IND/RP4/PMBE/CN1/RB4
TMS/USBID//CN27/RB5
TDI/RP7/PMD5/INT0/CN23/RB7
TCK/USBOEN/SCL1/RP8/PMD4/CN22/RB8
TDO/SDA1/RP9/PMD3/RCV/CN21/RB9
PGED2/D-/VPIO/RP10/CN16/RB10
PGEC2/D-/VMIO/RP11/CN15/RB11
AN11/C1INC/RP13/PMRD/REFO/SESSEND/CN13/RB13
AN10/C3INB/CVREF/VCPCON/VBUSON/RP14/CN12/RB14
AN9/C3INA/VBUSCHG/RP15/VBUSST/CN11/RB15
MCLR
DISVREG
VCAP/VDDCORE
VDD
VBUS
VUSB
VSS
U2
LD1117xx
U3
MAX3232CSE
C1+
C1-
C2+
C2-
VCC
V+
GND
V-
TXD
RXD
TXDH_3
RXDH_2
D1
D2
D3
D4
LED
R1
R2
R3
R4
330R
led_0
led_1
led_2
led_3
J2
2.xmm
Lomex 43-07-67
VCC5V
VCC3.3V
GND
R5
10k
R6
100R
C1
C2
C3
C4
C5
100nF
10uF
1uF
R16
10K
R7
DAT
R8
SW1
SW_ tactile
D5
BAV99
UC_RX
UC_TX
R9
R10
PI_TX
PI_RX
REL
R11
Q1
NPN
REL_OUT
IR
R15
Q2
U4
TSOP17xx
INFRA IN
R12
R13
I2C_CLK
I2C_DAT
Title
Size
A4
Number
Revision
Date:
2015.04.19.
Sheet of
File:
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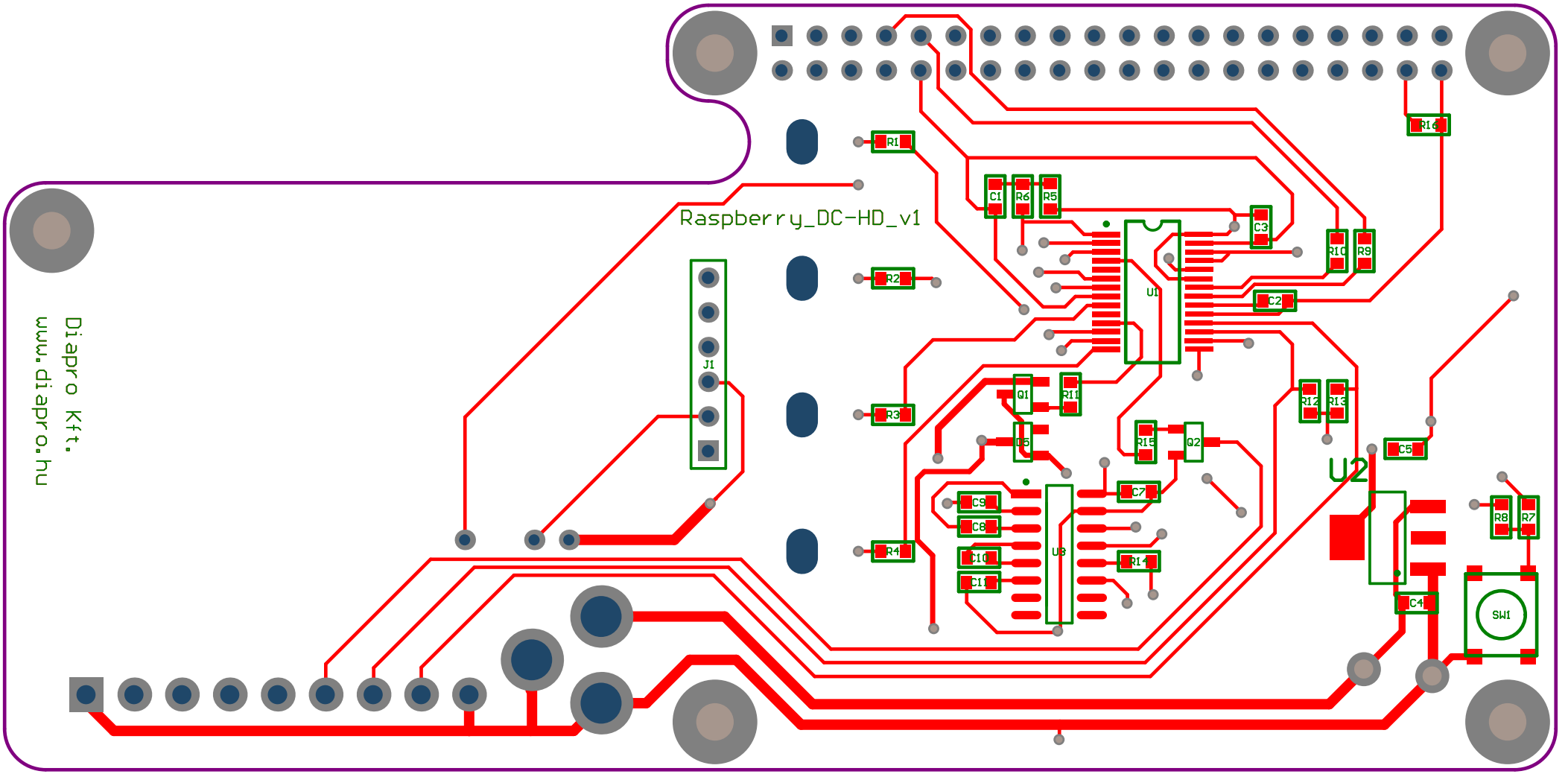
Drawn By:


Raspberry_DC-HD_v1
Diapro Kft.
www.diapro.hu
J1
U1
U2
U3
SW1
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
C1
C2
C3
C4
C5
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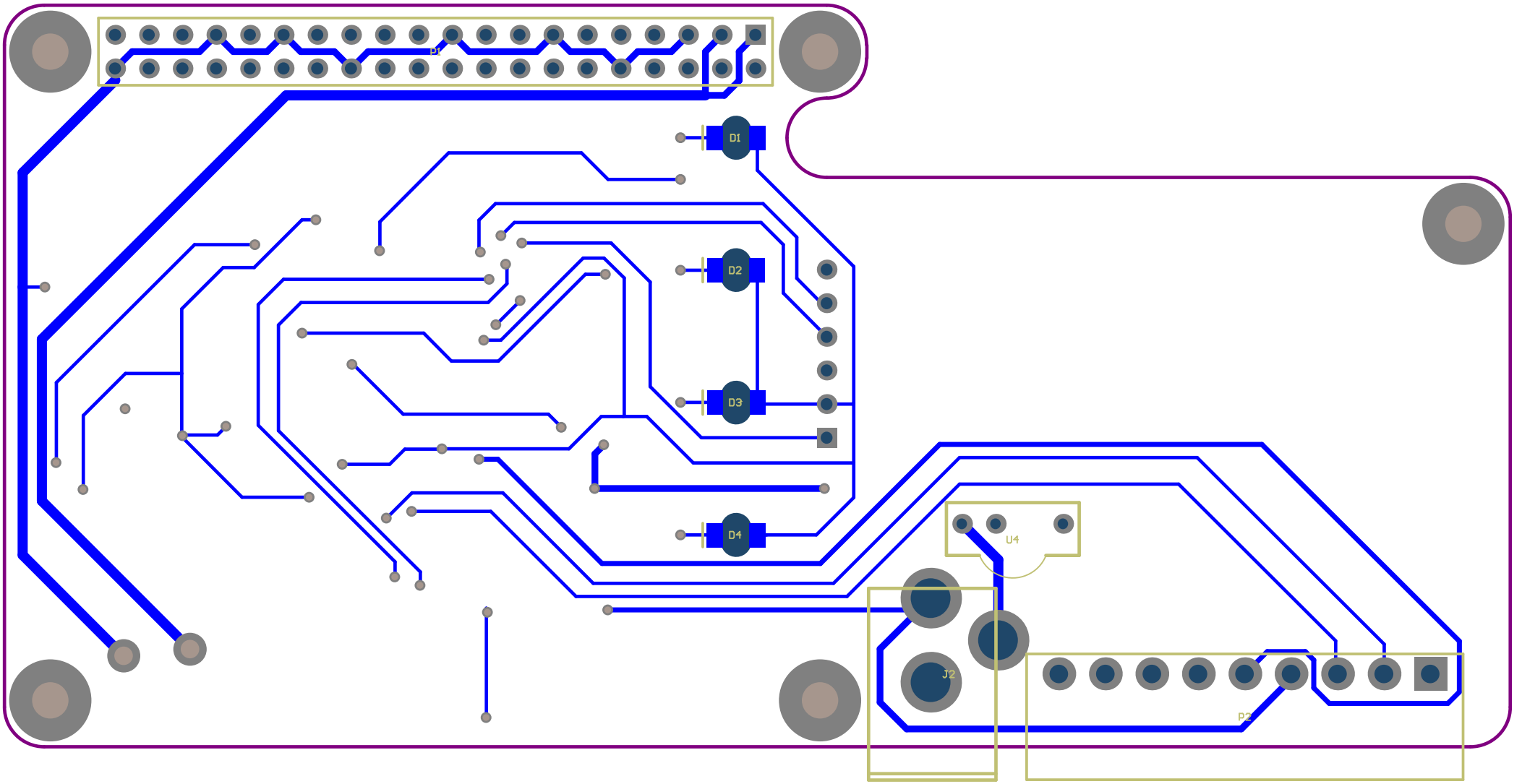
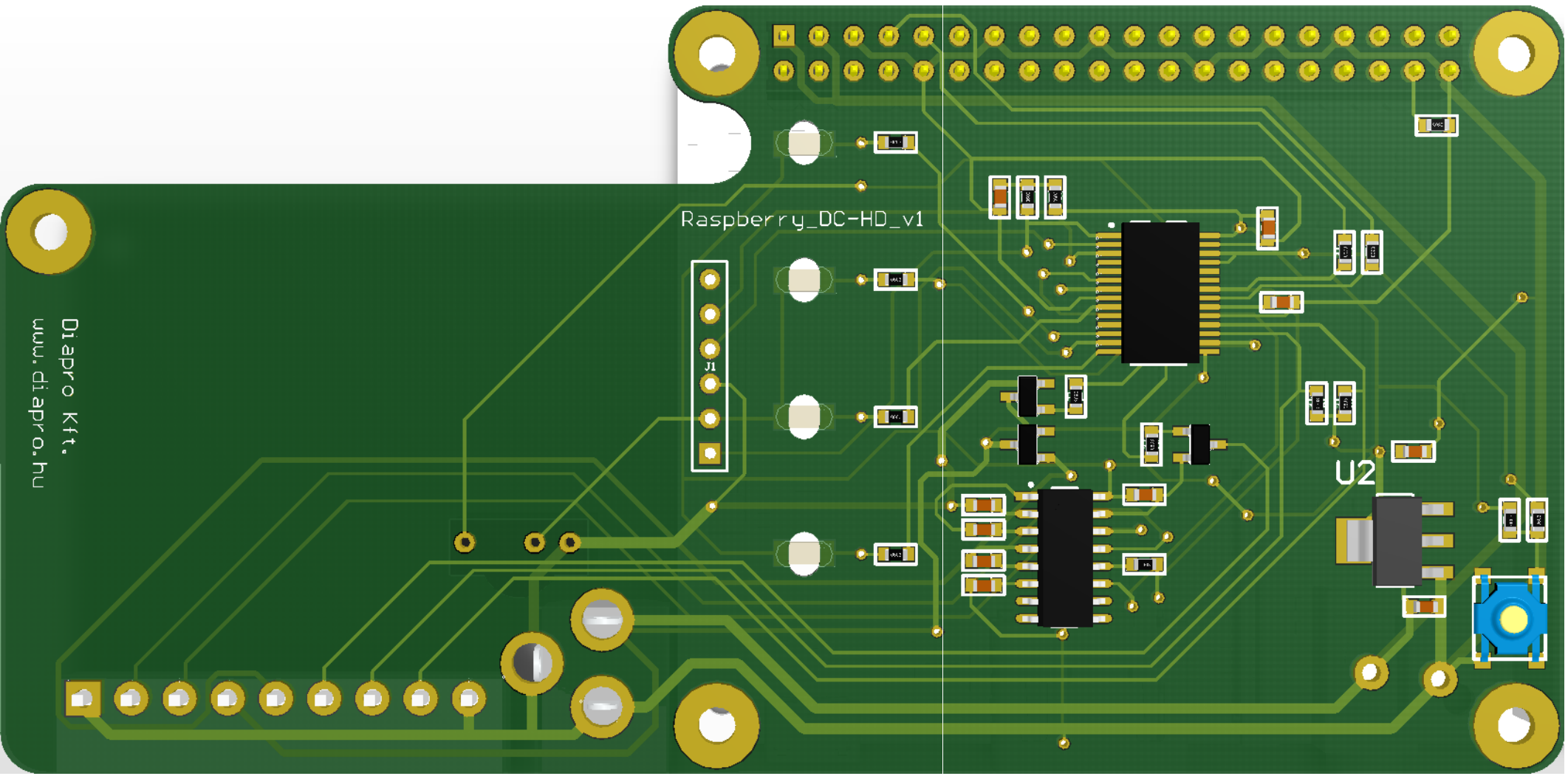
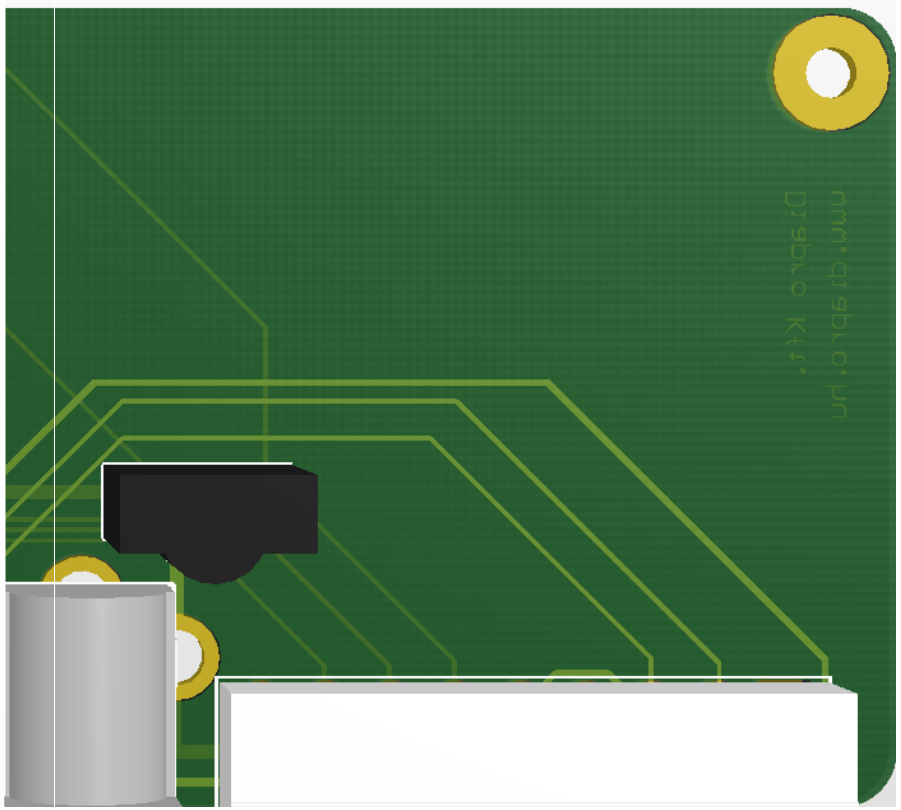
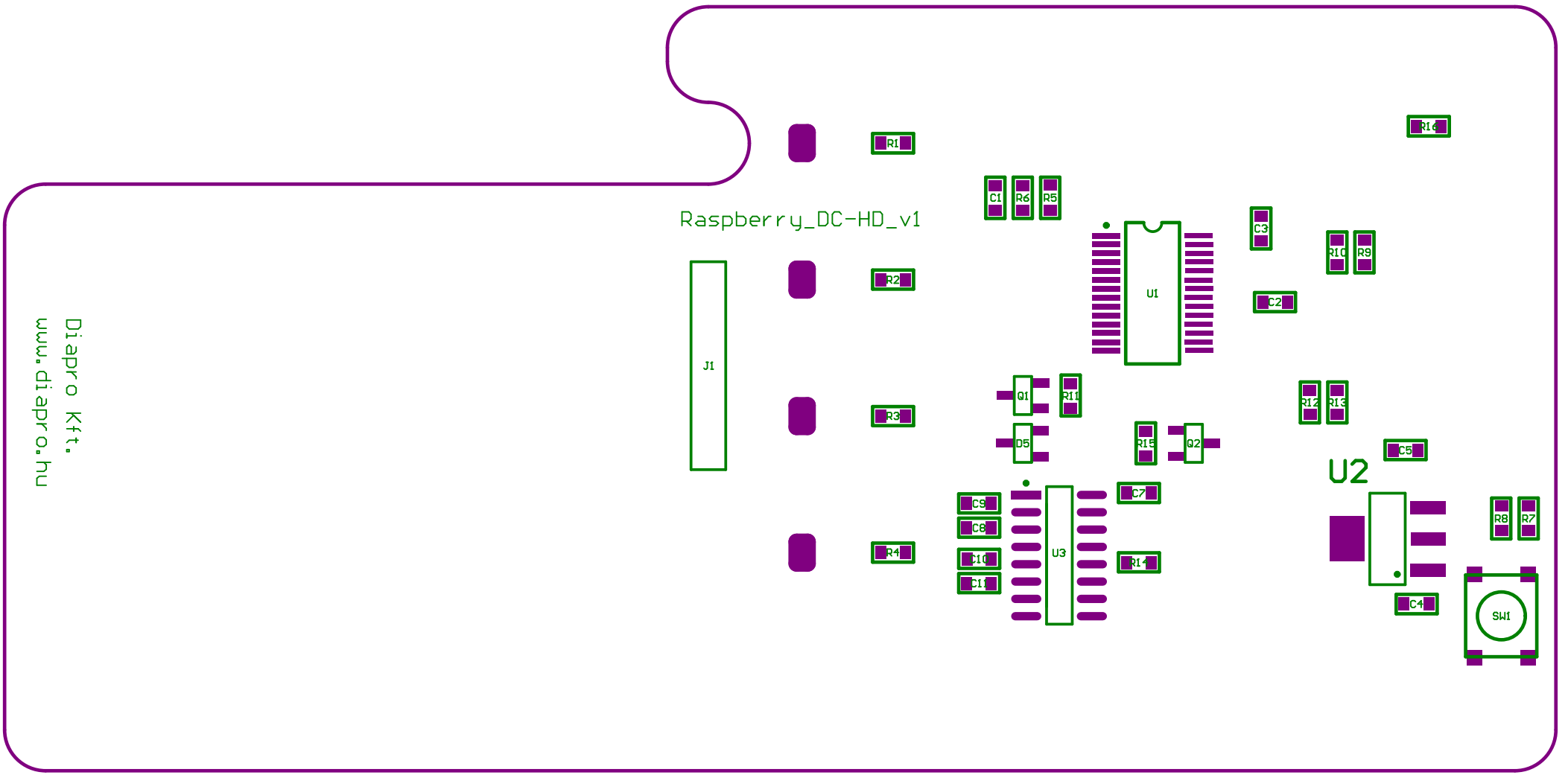
C8
C9
C10
C11
Q1
Q2
D5

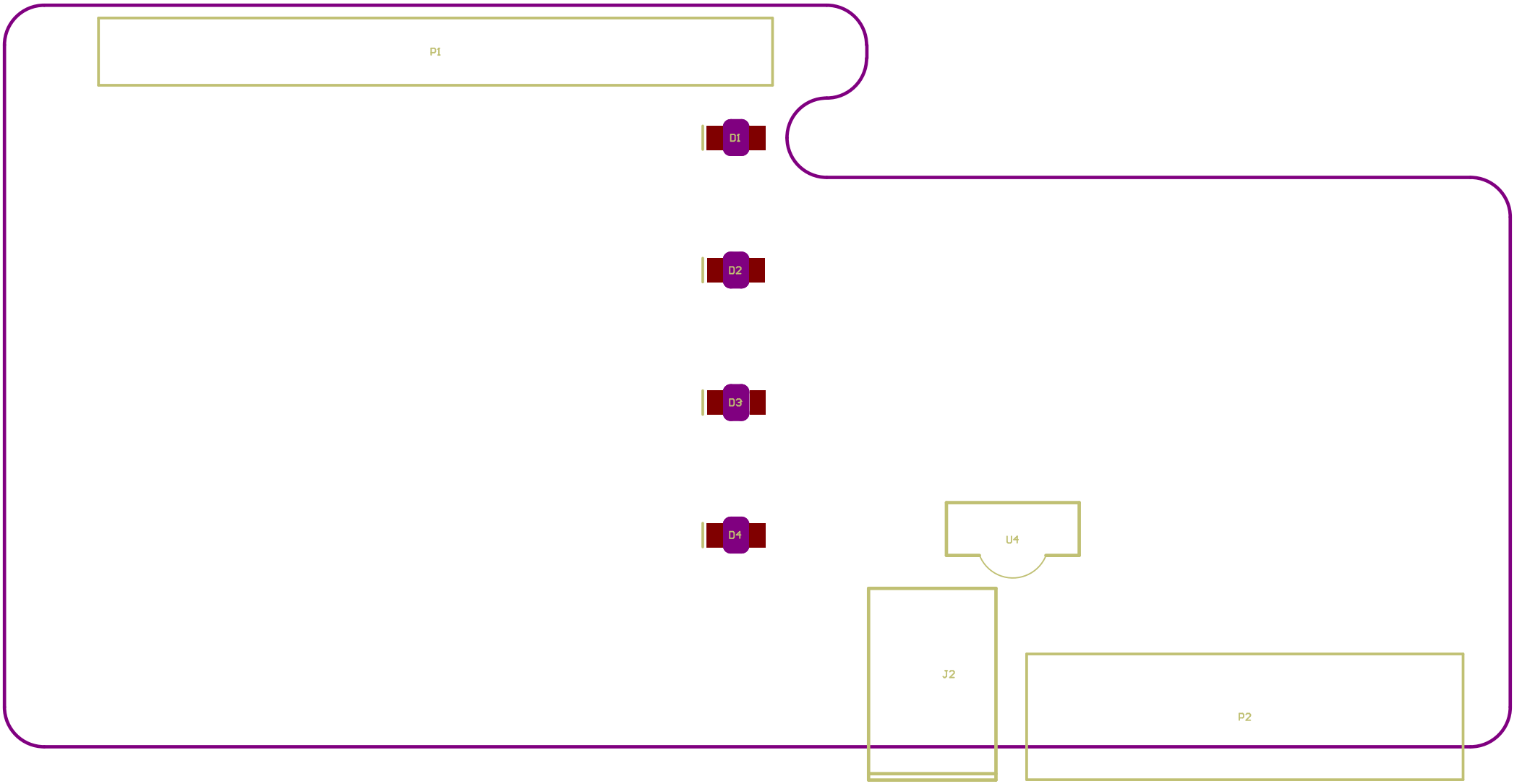

P1
D1
D2
D3
D4
U4
J2
P3


Raspberry_DC-HD_v1
J1
U2
Diapro Kft.
www.diapro.hu





Diapro Kft.
www.diapro.hu


P1
D1
D2
D3
D4
U4
J2
P2

Comment	Description	Designator	Footprint	LibRef	Order info	Quantity	T qés
100nF	Capacitor	C1, C3, C7, C8, C9, C10, C11	FP_0603_CAP_080	CAP		7	
10uF	Capacitor	C2	FP_0603_CAP_080	CAP		1	
1uF	Capacitor	C4, C5	FP_0603_CAP_080	CAP		2	
LED	Typical LED	D1, D2, D3, D4	1206 LED Reversed	LED		4	
BAV99		D5	DIODE_SOT23_serial	BAV99		1	
PIC_Kit	PIC Kit connector	J1	HDR1X6	PIC_Kit		1	
2.xmm	2.xmm DC HEBA25 TÁPFESZÜLTSÉG ALJZAT ZÁRT, NYÁKBA 90°	J2	FP_DC_TAP_ANYA	DC_TAP_ANYA	Lomex 43-07-67	1	
Header 20X2	Header, 20-Pin, Dual row	P1	Header_2X20_pin_2.54	Header 20X2		1	
IO	Header, 9-Pin	P2	Euroblock 3.5pitch 9P	Header 9		1	
NPN		Q1, Q2	TR_SOT23	NPN		2	
330R	Resistor	R1, R2, R3, R4	FP_0603_RES	RES		4	
10k	Resistor	R5, R8, R11, R12, R13, R15, R16	FP_0603_RES	RES, Res3	L: 81-10-38	7	5%
100R	Resistor	R6, R7, R9, R10, R14	FP_0603_RES	RES		5	
SW_ tactile		SW1	flat_smd_button	SW_ tactile		1	
PIC24FJ64GB002-I/SO	16-Bit Flash Microcontroller with USB On-The-Go and nanoWatt XLP, 64KB Flash, 8KB SRAM, 28-Pin SOIC, Industrial Temperature	U1	SSOP-28	PIC24FJ64GB002-I/SO		1	
LD1117xx	LD1117xx 3,3V lin reg	U2	SUPPLY_SOT223	LD1117xx	http://hu.mouser.com/ProductDetail/NXP/NX1117C33Z115/?qs=%2fha2pyFadui8%252bOpsKr9N%2fhvfdxjCMx%252bF0NTwqG%252bWOJY%3d	1	
MAX3232CSE	3.0V TO 5.5V, Low-Power, up to 1Mbps, True RS-232 Transceiver Using Four 0.1µF External Capacitor	U3	DIGITAL_SOIC16	MAX3232CSE		1	
TSOP17xx	TSOP17xx IR recei	U4	TSOP17xx	TSOP17xx		1	