
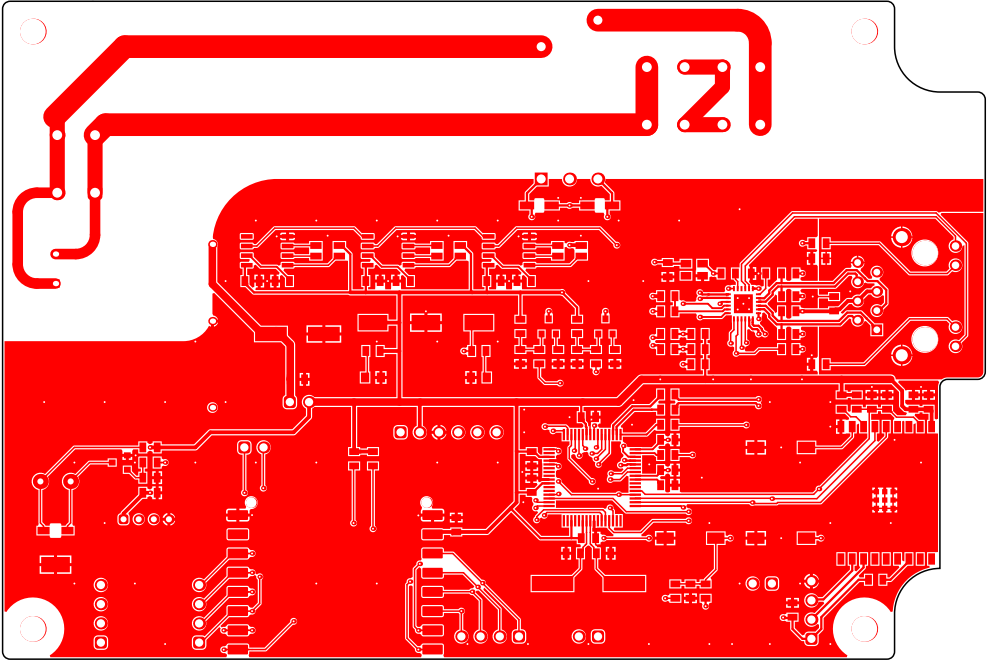


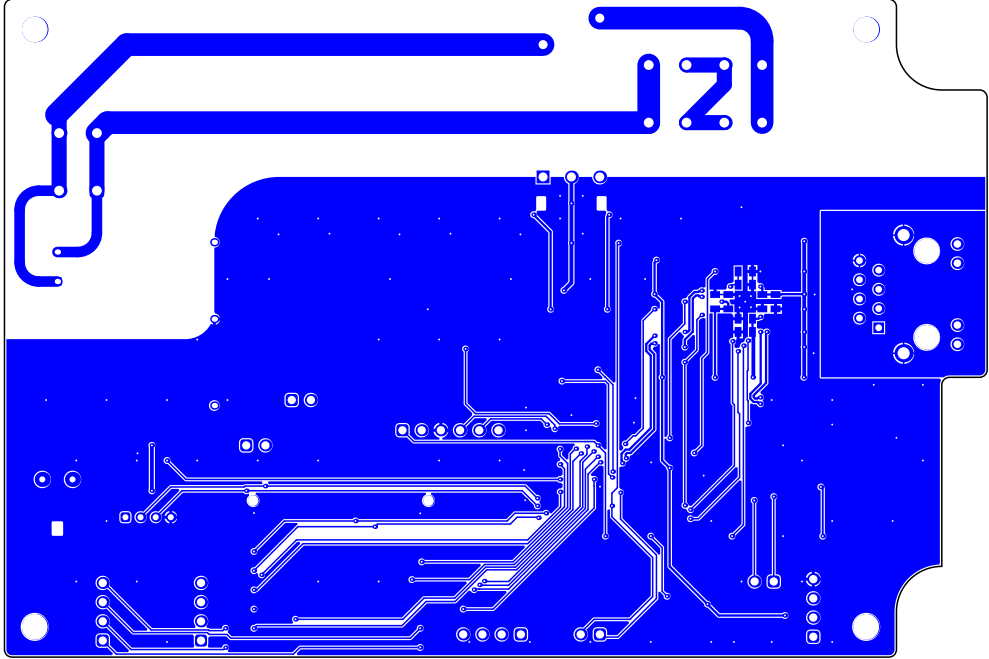
Scale (1:1)

Fichier : 2312_BadgePlaceTravail.PCBDwf		Modif.	a =Modifa	
Date 26.09.2023	Version 1.0		b =Modifb	
Heure 08:30	Auteur Miguel Santos		c =Modifc	
			d =Modifd	
 Avenue Recordon 1 1004 Lausanne Switzerland	Projet 2312_BadgePlaceTravail.PrjPcb		No :	
			Nb feuilles 5	
			Feuille n° 2	
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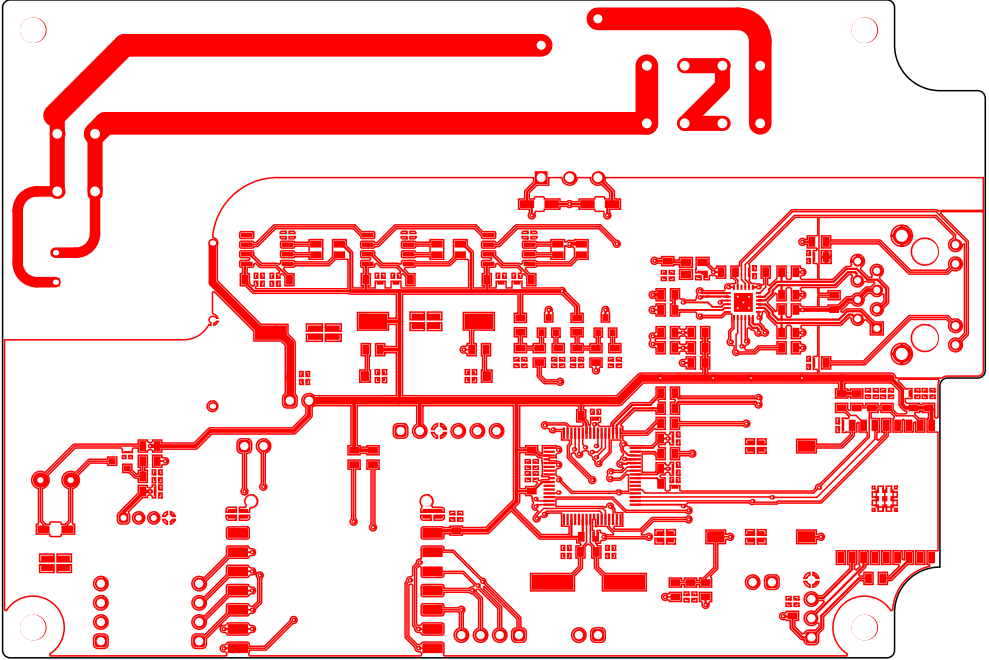
Top Layer



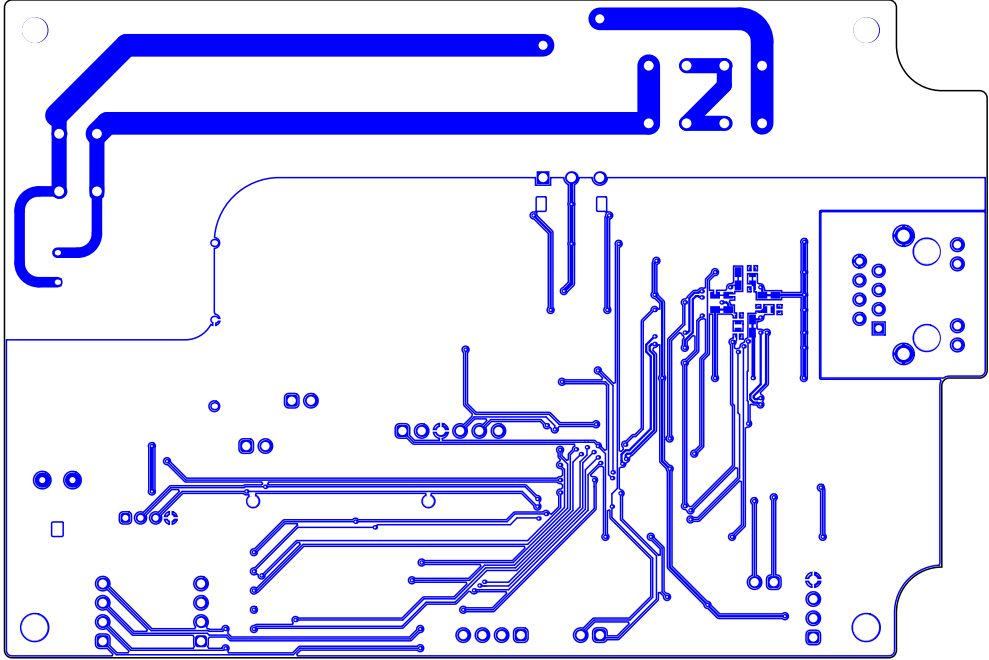
Bottom Layer




Top Layer



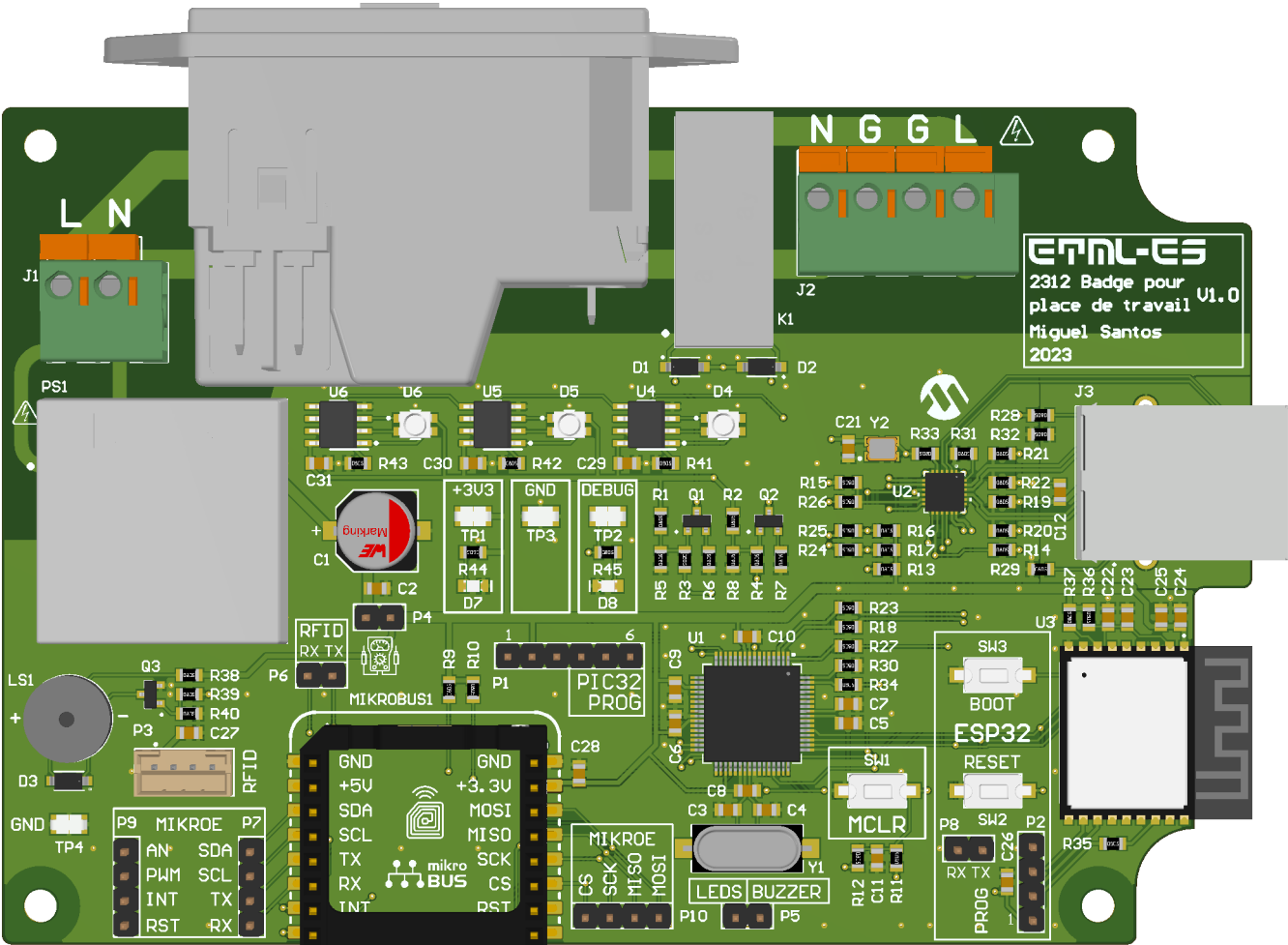
Bottom Layer



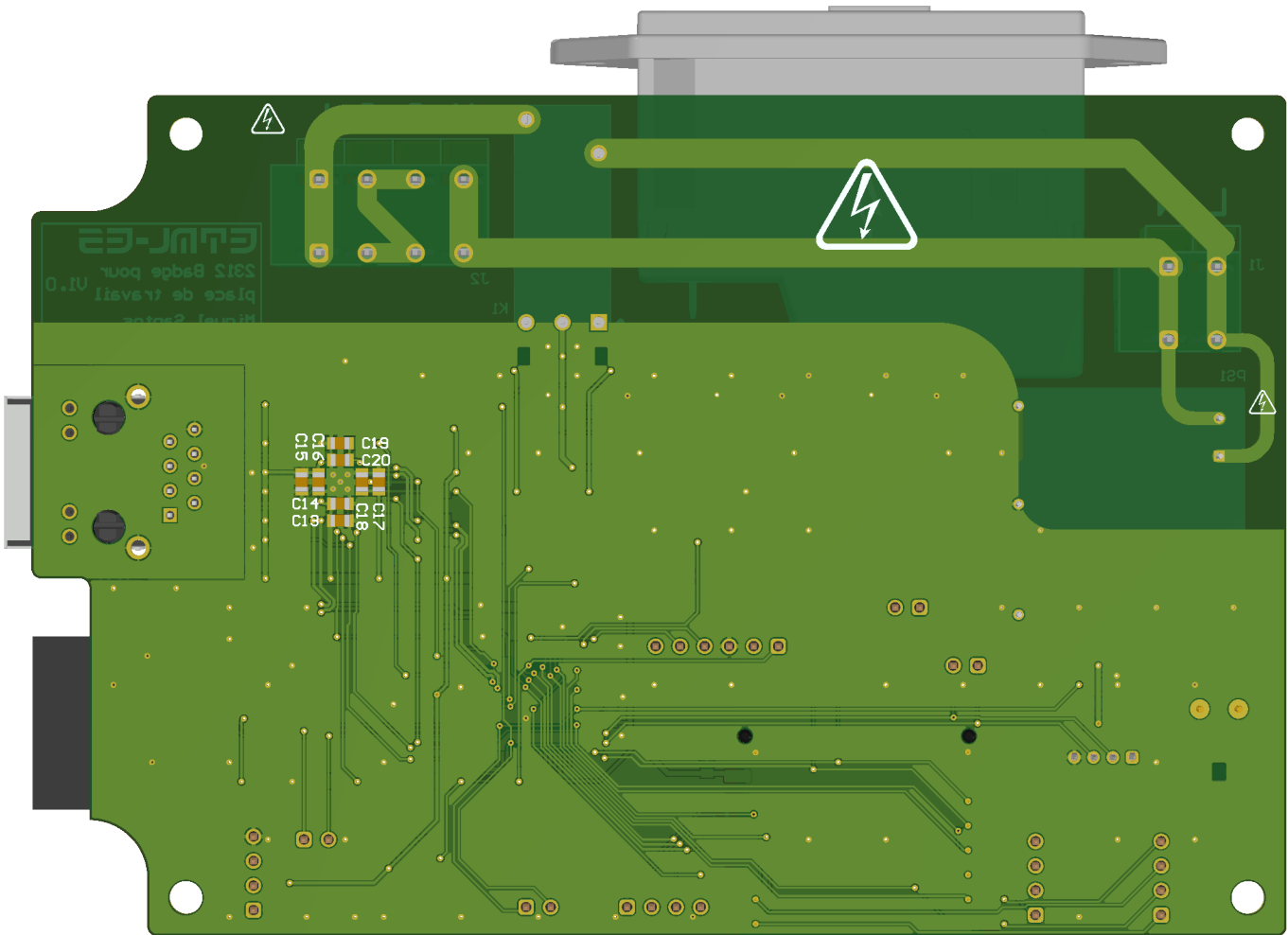
Scale (1:1)

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Date 26.09.2023	Version 1.0		b =Modifb	
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 Avenue Recordon 1 1004 Lausanne Switzerland	Projet2312_BadgePlaceTravail.PrjPcb		No :	
			Nb feuilles 5	Feuille n° 3
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Realistic View : Top



Realistic View : Bottom



Fichier : 2312_BadgePlaceTravail.PCBDwf		Modif :	a	=Modifa
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ETNL-ES Avenue Recordon 1 1004 Lausanne Switzerland		Projet 2312_BadgePlaceTravail.PrjPcb		
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Bill Of Materials

Line #	Designator	Quantity	Description	Manufacturer 1	Manufacturer Part Number	Supplier 1	Supplier Unit Price 1	Supplier Subtotal 1	Stock ES ?
1	D7, D8	2	WL-SMCW Mono-color Chip LED Waterclear, size 0805, Super Red, 1.9V, 140°	Würth Electronics	150080SS75000	Digi-Key	0.19	0.38	
2	J1	1	WR-TBL Series 401B Vertical Entry, THT, pitch 5mm, 2p	Würth Electronics	691401700002B	Digi-Key	1.06	1.06	
3	J2	1	WR-TBL Series 401B Vertical Entry, THT, pitch 5mm, 4p	Würth Electronics	691401700004B	Digi-Key	2.12	2.12	
4	J3	1	Modular Jack	CUI Devices		Digi-Key	5.48	5.48	
5	MIKROBUS1	1	mikroBUS socket	mikroElektronika		Mouser	0.9	0.9	
6	R44, R45	2	SMD Resistor 0805, 330Ω						Y
7	U1	1	No Description Available	Microchip		Digi-Key	11.89	11.89	
8	U2	1	No Description Available	Microchip		Digi-Key	1.29	1.29	
9	U4, U5, U6	3	No Description Available	Texas Instruments		Digi-Key	1.33	3.99	
11	C1	1	WCAP-PSHP Aluminum Polymer Capacitor, V-Chip, SMT, D8 x H7.7mm, 470µF, 6.3V	Würth Electronics	875115150005	Digi-Key	1.06	1.06	
12	C2, C6, C7, C8, C9, C10, C11, C14, C16, C18, C21, C23, C25, C26, C27, C28, C29, C30, C31	19	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X7R, 100nF, 10VDC	Würth Electronics	885012207016	Digi-Key	0.047	0.893	
13	C3, C4	2	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, NP0, 22pF, 10VDC	Würth Electronics	885012007002	Digi-Key	0.1	0.2	
14	C5	1	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X7R, 10µF, 6.3VDC	Würth Electronics	885012207003	Digi-Key	0.56	0.56	
15	C12	1	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X7R, 22nF, 10VDC	Würth Electronics	885012207013	Digi-Key	0.1	0.1	
16	C13, C15, C17, C19, C22	5	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X7R, 1µF, 10VDC	Würth Electronics	885012207022	Digi-Key	0.1	0.5	
17	C20	1	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, NP0, 470pF, 10VDC	Würth Electronics	885012007007	Digi-Key	0.1	0.1	
18	C24	1	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X5R, 10µF, 6.3VDC	Würth Electronics	885012107004	Digi-Key	0.2	0.2	
19	D4, D5, D6	3	WL-SFTW Full-color TOP LED Waterclear, size 3528, Red & Green & Blue, 120°	Würth Electronics	150141M173100	Digi-Key	0.5	1.5	
20	P1	1	WR-PHD Pin Header, THT, Vertical, pitch 2.54mm, 1 Row, 6P	Würth Electronics	61300611121	Digi-Key	0.35	0.35	Y
21	P2, P7, P9, P10	4	WR-PHD Pin Header, THT, Vertical, pitch 2.54mm, 1 Row, 4P	Würth Electronics	61300411121	Digi-Key	0.19	0.76	Y
22	P3	1	WR-WTB Male Vertical Shrouded Header, pitch 2mm, 4pins	Würth Electronics	62000411622	Digi-Key	0.21	0.21	
23	P4, P5, P6, P8	4	WR-PHD Pin Header, THT, Vertical, pitch 2.54mm, 1 Row, 2P	Würth Electronics	61300211121	Digi-Key	0.13	0.52	Y
24	SW1, SW2, SW3	3	WS-TASV SMT Tact Switch, L6 x W3.5 x H5mm, 360g, SPST-NO, 12V, 50mA	Würth Electronics	434121050836	Digi-Key	0.42	1.26	
25	Y1	1	WE-XTAL Quartz Crystal, SMT, HC49/4HSMX, 8MHz, +/-30ppm	Würth Electronics	830020423	Digi-Key	0.37	0.37	
26	Y2	1	WE-SPXO Simple Packaged Quartz Oscillator, SMT, CFPS-39, 50MHz, 3.3V	Würth Electronics	831055872	Digi-Key	1.62	1.62	
27	R6, R7	2	SMD Resistor 0805, 2Ω	Vishay Dale		Digi-Key	0.1	0.2	
28	R31	1	SMD Resistor 0805, 12.1kΩ	Vishay		Digi-Key	0.1	0.1	
29	X1	1	Power RCPT IEC320	Schurter		Digi-Key	1.15	1.15	
30	PS1	1	5W AC/DC-Converter 'POWERLINE' 1x1 4kV reg	Recom		Digi-Key	11.63	11.63	
31	K1	1	RELAY GEN PURPOSE SPST 16A 3V	Panasonic	ADW1203HLW	Digi-Key	6.01	6.01	
32	TP1, TP2, TP3, TP4	4	Test Point, 1 Position SMD, RoHS, Tape and Reel	Keystone Electronics		Digi-Key	0.34	1.36	
33	U3	1	WiFi Modules (802.11) (Engineering Samples) SMD module, ESP32-C3, 4MB SPI flash, PCB antenna, -40 C +85 C	Espressif Systems		Digi-Key	1.9	1.9	
34	UX1	1	CHILLI UART B1 READER BOARD	Eccel		Digi-Key	40.02	40.02	
35	Q1, Q2, Q3	3	Bipolar (BJT) Transistor NPN 80V 500mA 100MHz 225mW Surface Mount SOT-23-3 (TO-236)	Diodes		Digi-Key	0.22	0.66	
36	D1, D2, D3	3	Diode Shottky, 500mA, 80V	Diodes		Digi-Key	0.29	0.87	
37	LS1	1	Buzzer Magnetic, 15Ω	CUI Devices		Digi-Key	0.83	0.83	
38	LP1, LP2, LP3	3	LIGHT PIPE CLEAR FLEXIBLE 6"	Bivar		Digi-Key	1.99	5.97	
39	R1, R8	2	SMD Resistor 0805, 1.4kΩ						Y
40	R2, R5	2	SMD Resistor 0805, DNP						Y
41	R3, R4, R39	3	SMD Resistor 0805, 140Ω						Y
42	R9, R10, R11, R35, R36, R37, R40	7	SMD Resistor 0805, 10kΩ						Y
43	R12	1	SMD Resistor 0805, 1kΩ						Y
44	R13	1	SMD Resistor 0805, 1.5kΩ						Y
45	R14, R15, R16, R17, R30	5	SMD Resistor 0805, 4.7kΩ						Y
46	R19, R20, R21, R22	4	SMD Resistor 0805, 51Ω						Y
47	R18, R23, R24, R25, R26, R27, R33, R34	8	SMD Resistor 0805, 33Ω						Y
48	R28, R29	2	SMD Resistor 0805, 270Ω						Y
49	R32, R38	2	SMD Resistor 0805, 0Ω						Y
50	R41, R42, R43	3	SMD Resistor 0805, 2.6kΩ						Y

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Date 26.09.2023

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Version 1.0

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ETNL-ES

Avenue Recordon 1

1004 Lausanne

Switzerland

Projet2312_BadgePlaceTravail.PrjPcb

No :

Nb feuilles 5

Feuille n° 5

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