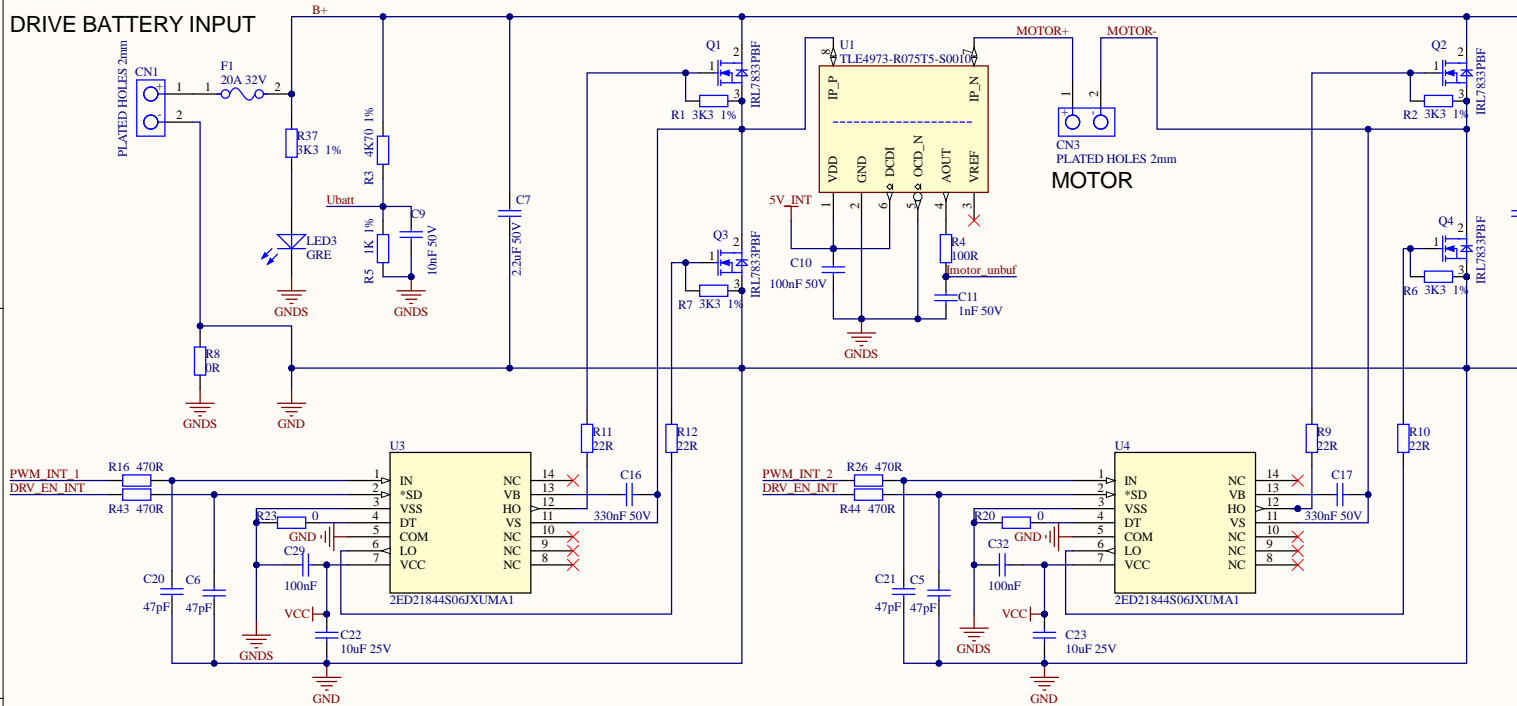


DRIVE POWER CIRCUIT

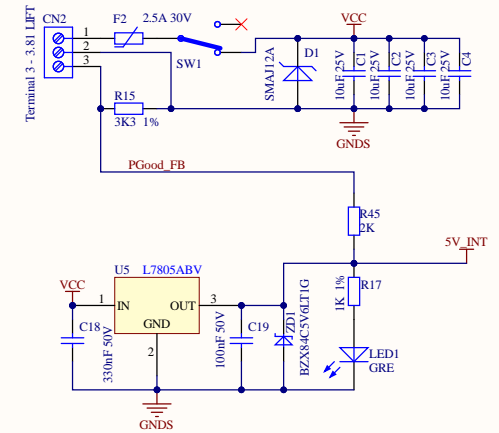
POWER SUPPLIES

DRIVE BATTERY INPUT

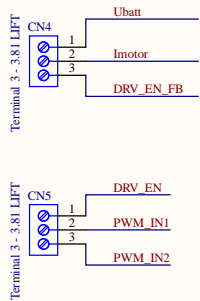


AUX POWER CONNECTOR (15V max)

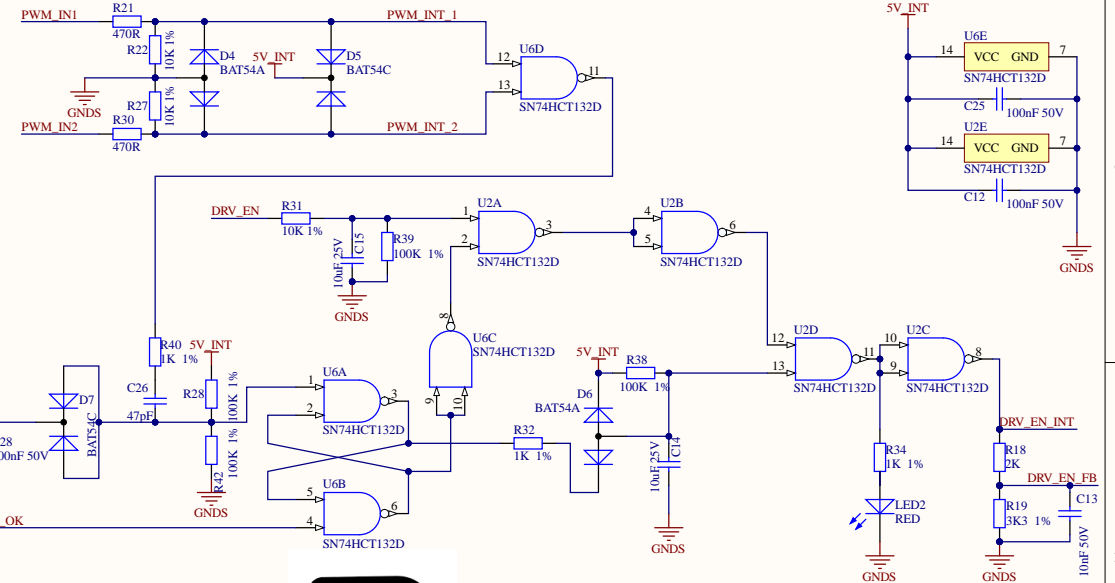
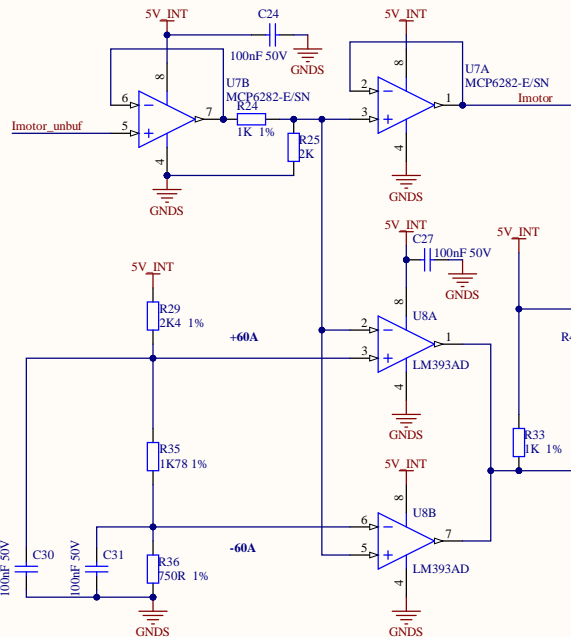
- 1: AUX BATTERY POSITIVE
- 2: AUX BATTERY NEGATIVE
- 3: AUX POWER GOOD FEEDBACK (output)



SIGNAL CONNECTORS



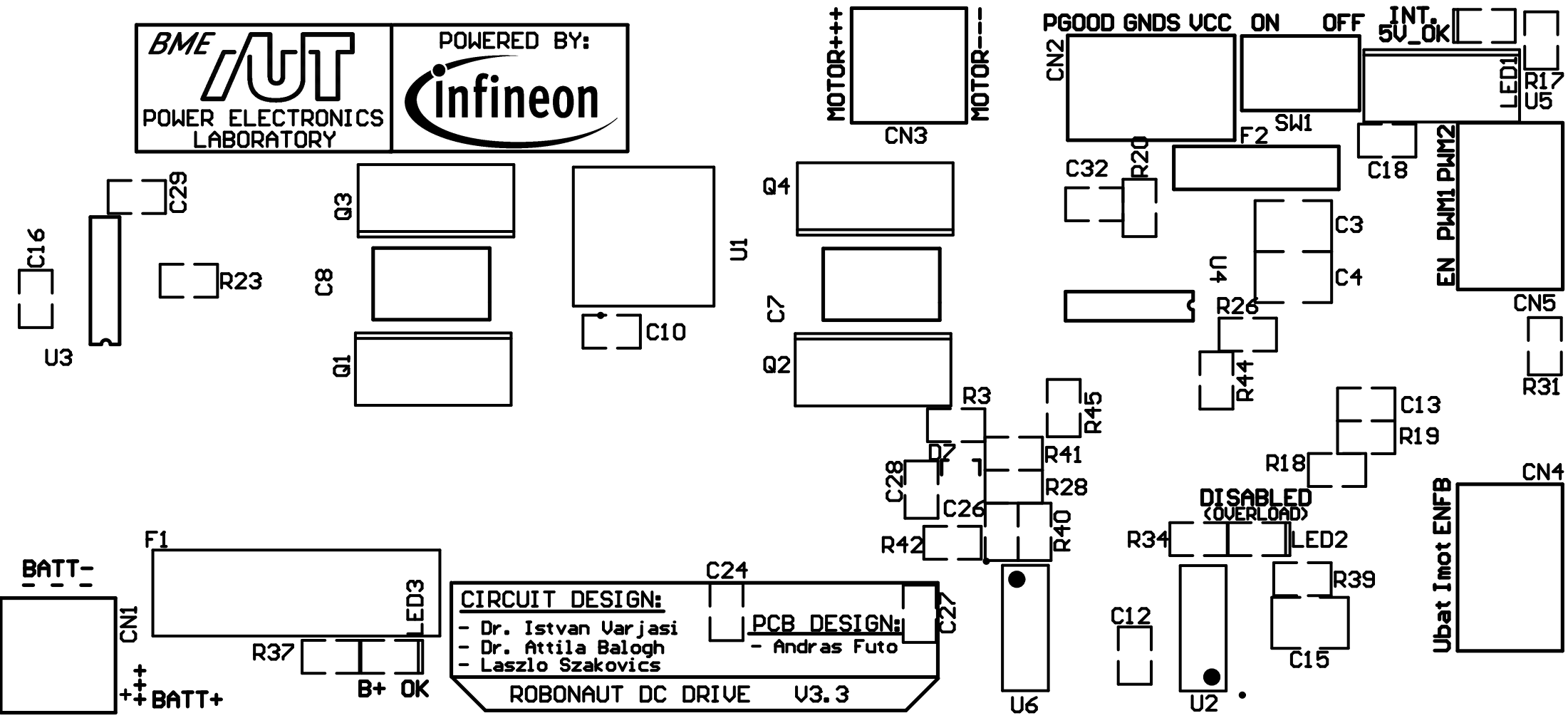
MEASUREMENT AND PROTECTION

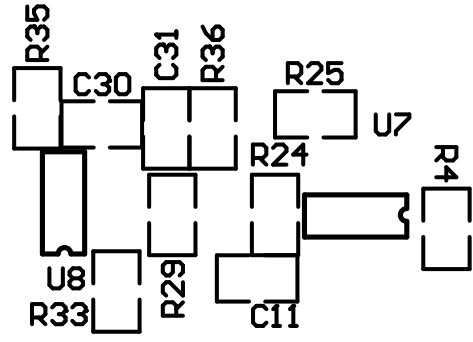
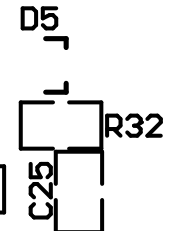
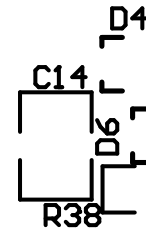
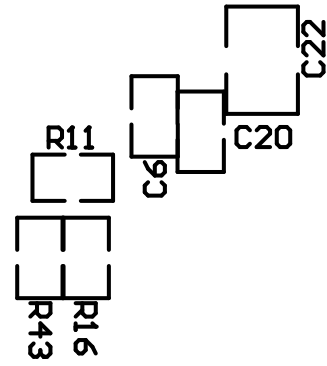
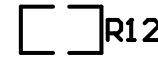
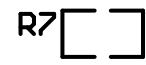
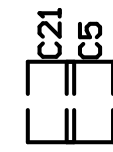
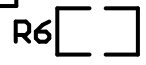
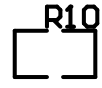
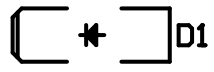
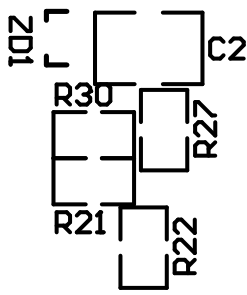
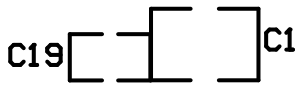


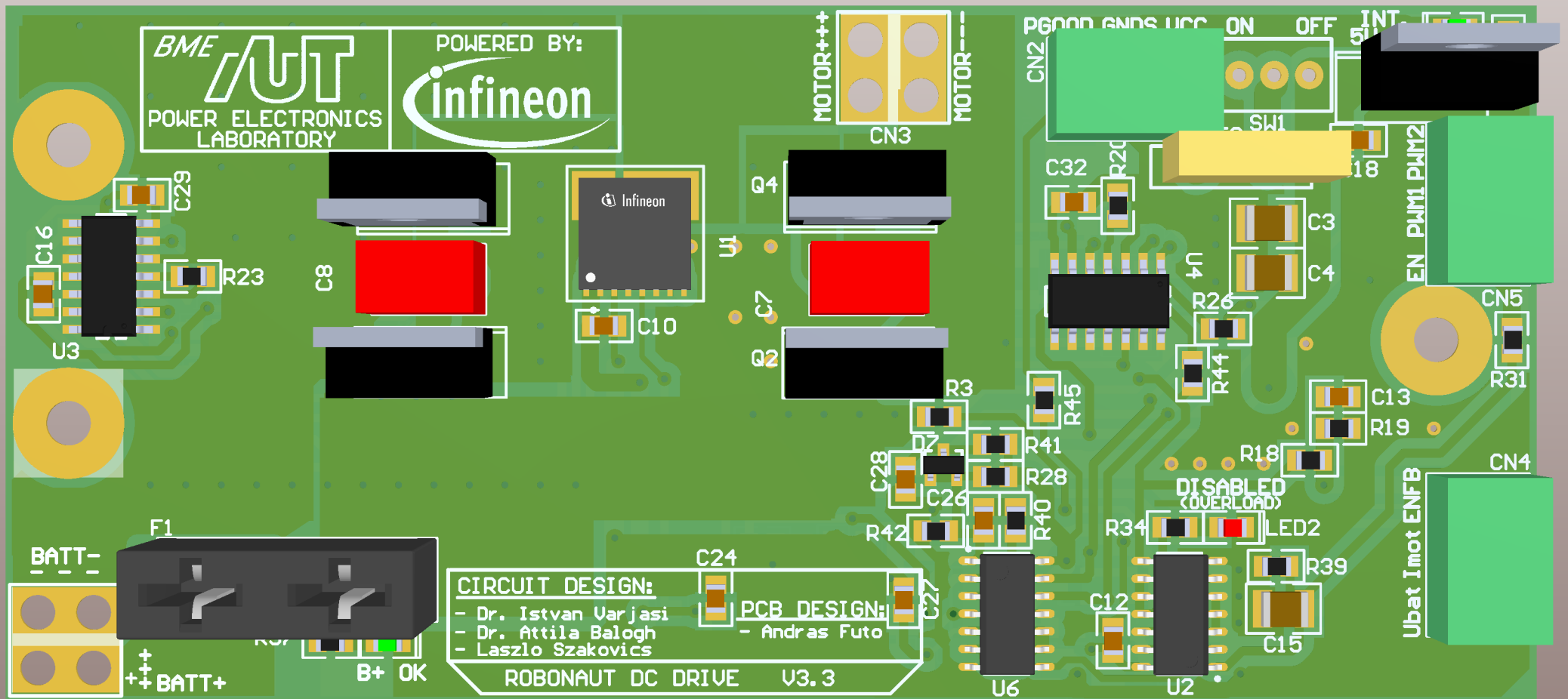
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Size A3		Number 1			Revision 3.3		
Date: 9. 03. 2024		Sheet of 1 / 1		File: C:\Agoston\drive_main\SchDoc			
		Drawn By:		A. Futo, A. Balogh			

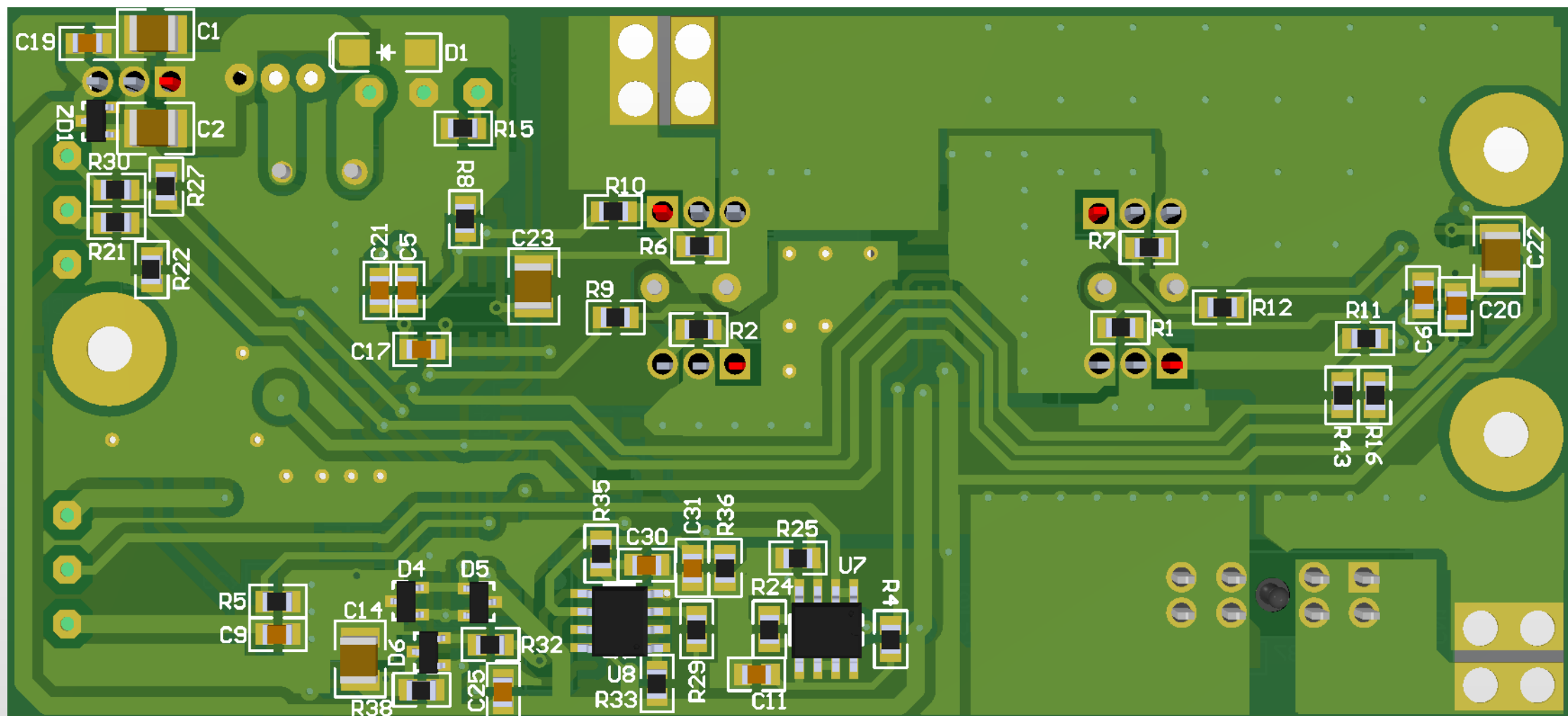
BME
UT
POWER ELECTRONICS
LABORATORY

POWERED BY:
Infineon





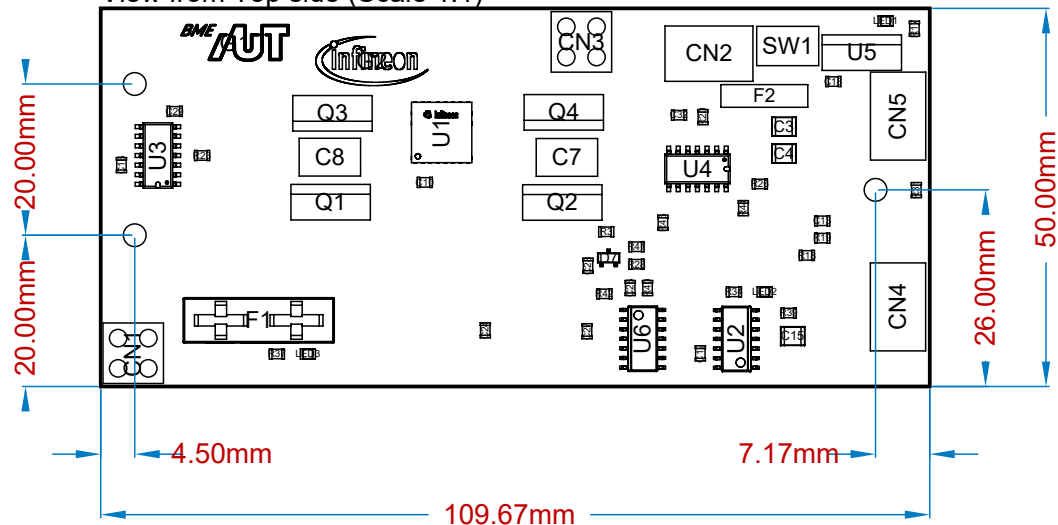




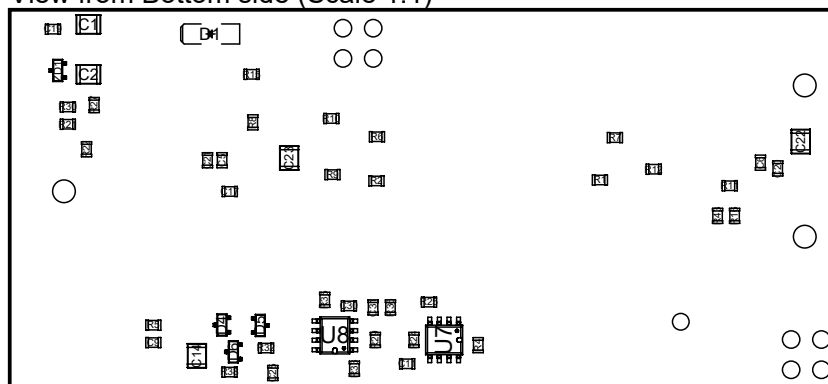
A

B

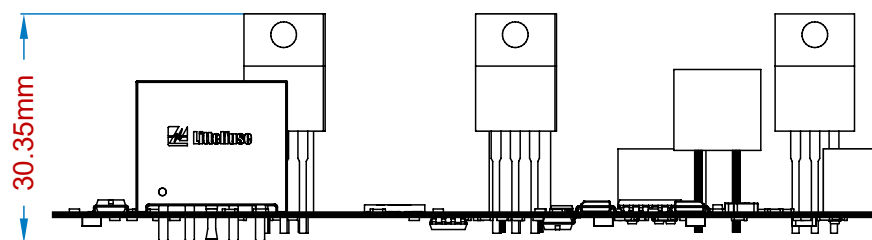
View from Top side (Scale 1:1)



View from Bottom side (Scale 1:1)



View from Front side (Scale 1:1)



A

B

Bill Of Materials

Line #	Designator	Comment	Quantity	Order Code	Distributor
1	C1, C2, C3, C4, C14, C15, C22, C23	10uF 25V	8	82-07-90	Lomex
2	C5, C6, C20, C21, C26	47pF	5	82-13-60	Lomex
3	C7, C8	2.2uF 50V	2	107422	Farnell
4	C9, C13	10nF 50V	2	82-05-78	Lomex
5	C10, C12, C19, C24, C25, C27, C28, C30, C31	100nF 50V	9	82-13-46	Lomex
6	C11	1nF 50V	1	82-15-94	Lomex
7	C16, C17, C18	330nF 50V	3	82-11-07	Lomex
8	C29, C32	100nF	2	82-13-46	Lomex
9	CN1, CN3	PLATED HOLES 2mm	2	-	-
10	CN2, CN4, CN5	Terminal 3 - 3.81 LIFT	3	43-22-54	Lomex
11	D1	SMAJ12A	1	96-03-81	Lomex
12	D4, D6	BAT54A	2	83-00-19	Lomex
13	D5, D7	BAT54C	2	83-03-03	Lomex
14	F1	20A 32V	1	44-01-91, 44-01-53	Lomex
15	F2	2.5A 30V	1	44-02-63	
16	LED1, LED3	GRE	2	95-00-57	Lomex
17	LED2	RED	1	95-00-20	Lomex
18	Q1, Q2, Q3, Q4	IRL7833PBF	4		Infineon
19	R1, R2, R6, R7, R15, R19, R37	3K3 1%	7	80-10-92	Lomex
20	R3	4K70 1%	1	80-10-94	Lomex
21	R4	100R	1	80-10-74	Lomex
22	R5, R17, R24, R32, R33, R34, R40	1K 1%	7	80-10-86	Lomex
23	R8	0R	1	81-34-68	Lomex
24	R9, R10, R11, R12	22R	4	80-56-43	Lomex
25	R16, R21, R26, R30, R43, R44	470R	6	80-10-82	Lomex
26	R18, R25, R45	2K	3	80-11-61	Lomex
27	R20, R23	0	2	80-11-10	Lomex
28	R22, R27, R31, R41	10K 1%	4	80-10-98	Lomex
29	R28, R38, R39, R42	100K 1%	4	80-11-10	Lomex
30	R29	2K4 1%	1	80-14-00	Lomex
31	R35	1K78 1%	1	80-15-64	Lomex
32	R36	750R 1%	1	80-14-86	Lomex
33	SW1	TOGGLE D= 5 3P SPDT SMTS-102-A2 (FEM) ON-ON 3A 125VAC 1AK.2ALL.PCB. SUBMINII	1	45-08-72	Lomex
34	U1	TLE4973-R075T5-S0010	1	TLE4973-R075T5-S0010	Infineon
35	U2, U6	SN74HCT132D	2	87-06-87	Lomex
36	U3, U4	2ED21844S06JXUMA1	2	2ED21844S06J	Infineon
37	U5	L7805ABV	1	32-23-31	Lomex
38	U7	MCP6282-E/SN	1	1439459	Farnell
39	U8	LM393AD	1	89-25-43	Lomex
40	ZD1	BZX84C5V6LT1G	1	85-01-02	Lomex