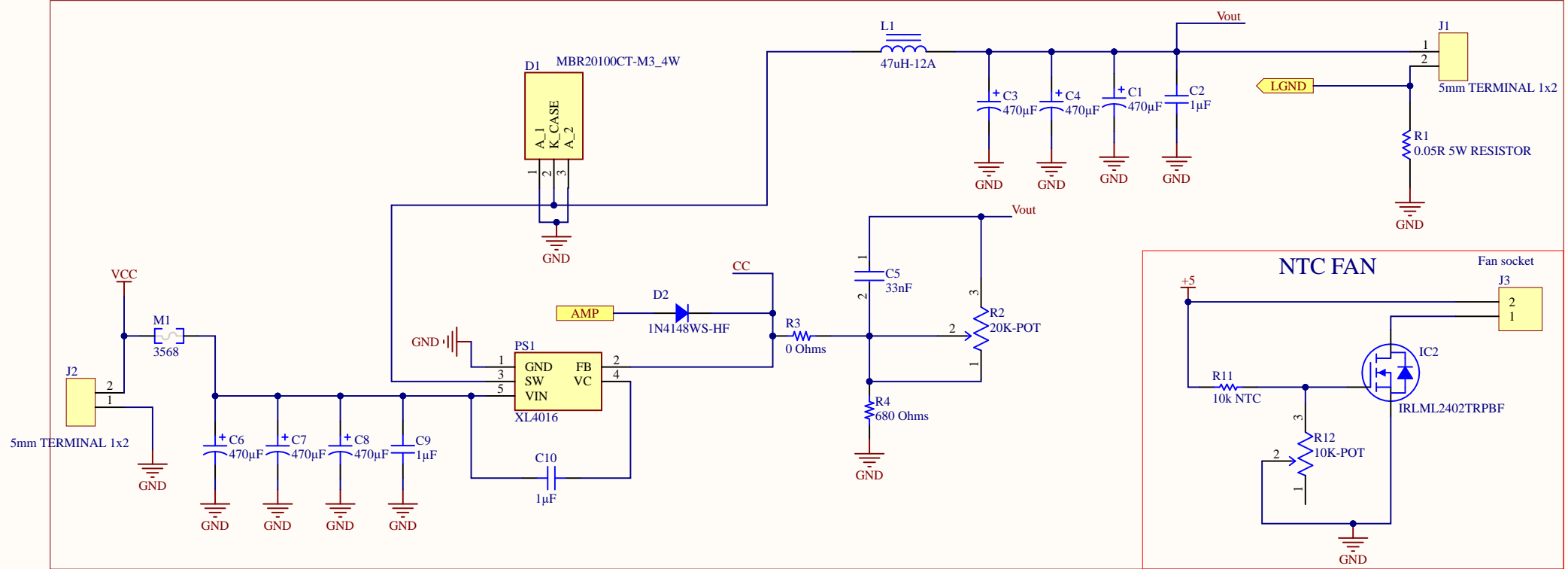
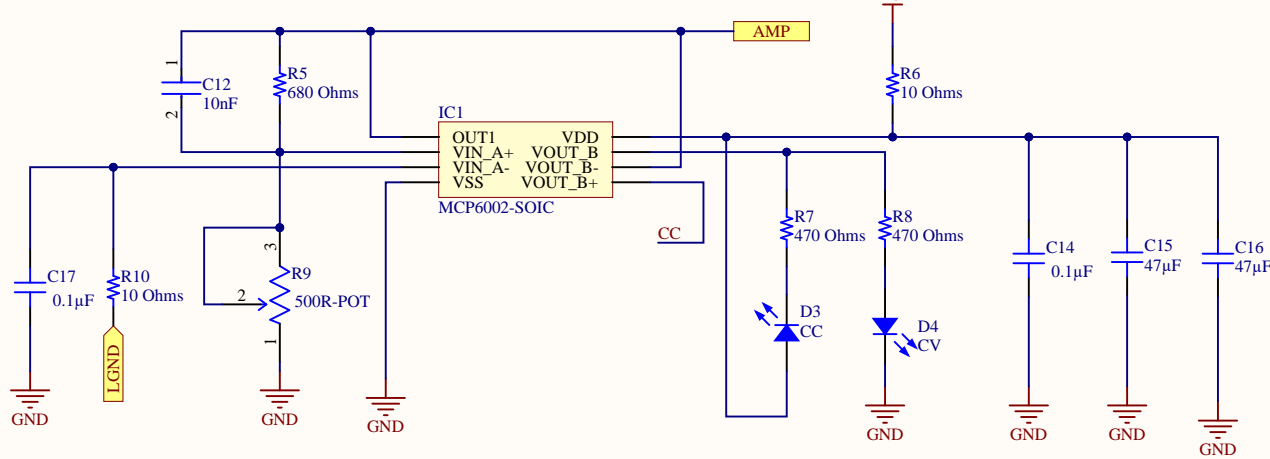


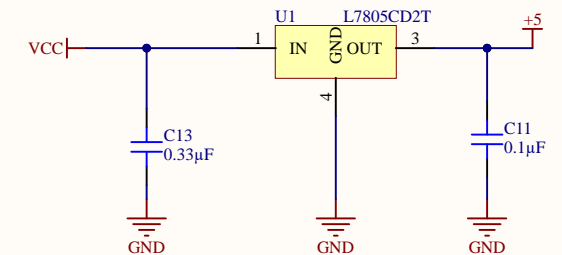
BUCK CONVERTER



OPAMP



5V REGULATOR

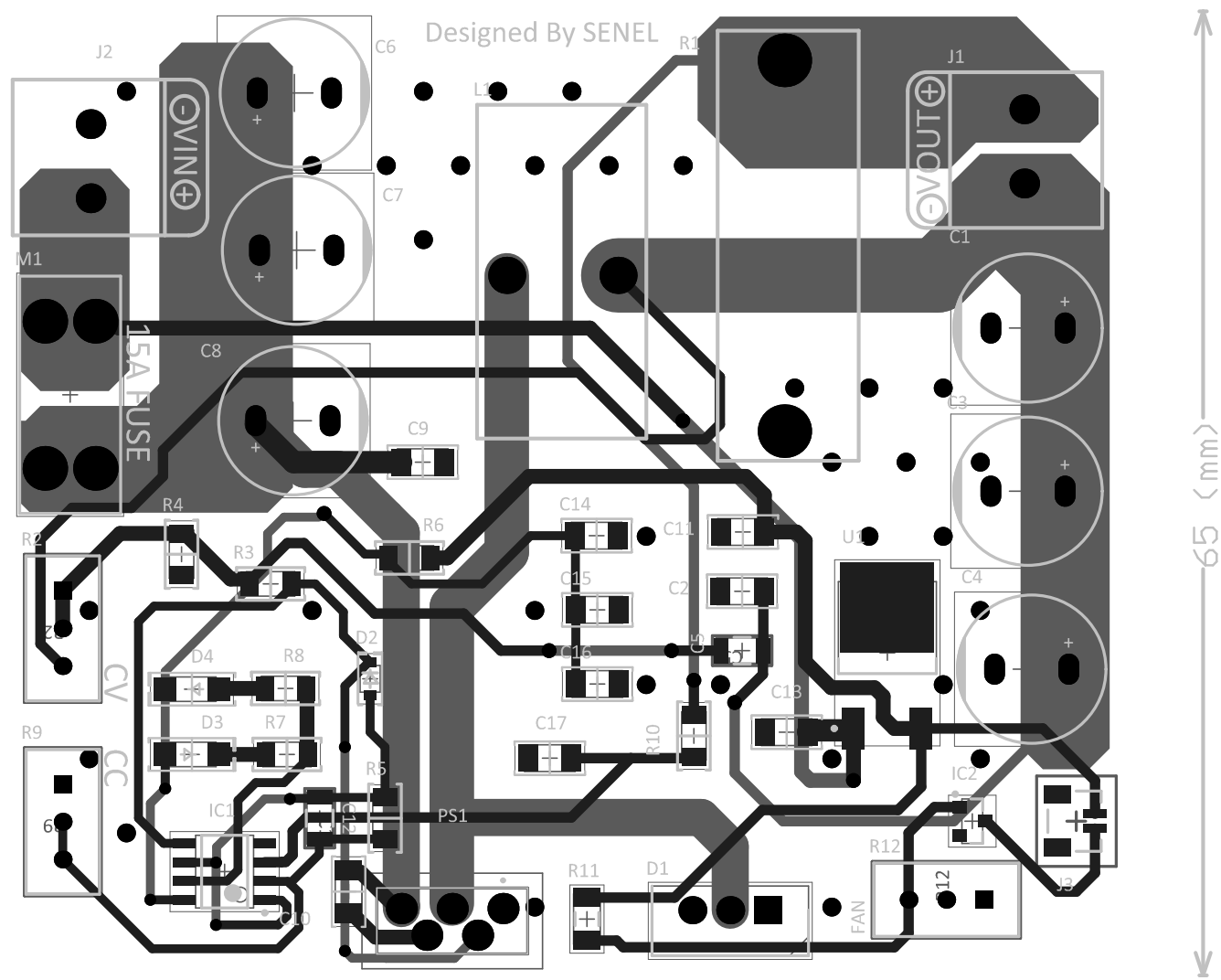


CC/CV ADJUSTABLE BUCK CONVERTER

Engineer: MUSTAFA ŞENEL

Size	Document Number	Rev
A4	1	1
Date:	7.11.2021	Sheet 1 of 1

75 (mm)



Comment	Description	Designator	Footprint	LibRef	Quantity
470μF	CAP ALUM 470UF 20% 50V RADIAL	C1, C3, C4, C6, C7, C8	CAP TH ALUM ELEC D10.00mm S5.00mm H21.50mm	ESMG500ELL471MJ20S	6
1μF	CAP CER 1UF 50V X7R 1206	C2, C9, C10	CAP 1206_3216 - 1.2MM	C1206C105M5RACTU	3
33nF	Multilayer Ceramic Capacitor, C Series, 0.033 - F, - 10%, X7r, 50 V, 1206 [3216 Metric]	C5	FP-C1206C-EB-MFG	CMP-03020-013789-1	1
0.1μF	CAP CER 0.1UF 16V X7R 1206, CAP CER 0.1UF 10V X7R 1206	C11, C14, C17	CAP 1206_3216 - 1.0MM	CC1206KRX7R7BB104, C1206C104K8RAC7800	3
10nF	CAP CER 10000PF 50V X7R 1206	C12	FP-C1206C-EB-MFG	CMP-2000-06008-2	1
0.33μF	CAP CER 0.33UF 50V X7R 1206	C13	CAP 1206_3216 - 1.8MM	CL31B334KBHWPNE	1
47μF	CAP CER 47UF 10V X5R 1206	C15, C16	CAP 1206_3216 - 1.8MM	CL31A476MPHNNNE	2
MBR20100CT-M3_4W	Schottky Diode	D1	TO255P470X1010X19 89-3P	MBR20100CT-M3_4W	1
1N4148WS-HF	DIODE SWITCHING 100V 150MA 200MW	D2	SOD323	1N4148WS-HF	1
CC	LED RED CLEAR 1206 SMD	D3	LED 1206_3216 RED	CMD11-21VRC/TR8	1
CV	LED GREEN CLEAR CHIP SMD	D4	LED 1206_3216 GREEN	XZDG55W-3	1
MCP6002-SOIC	MCP6002-SOIC OPAMP	IC1	SOIC127P600X175-8N	MCP6002-SOIC	1
IRLML2402TRPBF	MOSFET N-CH 20V 1.2A SOT-23	IC2	INFINEON SOT-23-3	IRLML2402TRPBF	1
5mm TERMINAL 1x2		J1, J2	5mm TERMINAL 1x2	5mm TERMINAL 1x2	2
Fan socket	CONN HEADER SMD 2POS 1MM	J3	JST BM02B-SRSS-TB	BM02B-SRSS-TB(LF)(SN)	1
47uH-12A	47uH-12A Power Inductor	L1	47uH-12A	47uH-12A	1
3568	FUSE HOLDER BLADE 500V 30A PCB	M1	KEYSTONE 3568	3568	1
XL4016	Power Supply	PS1	XL4016	XL4016	1
0.05R 5W RESISTOR	0.1R 5W RESISTOR STONE	R1	0.1R 5W RESISTOR	0.1R 5W RESISTOR	1
20K-POT	TRIMMER 10K OHM 0.5W PC PIN TOP	R2	FP-3296W-MFG	CMP-07234-000024-1	1
0 Ohms	RES SMD 0 OHM JUMPER 1/4W 1206	R3	RES 1206_3216	RC1206JR-070RL	1
680 Ohms	RES SMD 680 OHM 5% 1/4W 1206	R4, R5	RES 1206_3216	CR1206-JW-681ELF	2
10 Ohms	RES SMD 10 OHM 5% 1/4W 1206	R6, R10	RES 1206_3216	CRCW120610R0JNEB	2
470 Ohms	RES SMD 470 OHM 5% 1/4W 1206	R7, R8	RES 1206_3216	CRCW1206470RJNEAIF	2
500R-POT	TRIMMER 10K OHM 0.5W PC PIN TOP	R9	FP-3296W-MFG	CMP-07234-000024-1	1
10k NTC		R11	RESC3216X180X46NL 20T20	CMP-2003-04854-1	1
10K-POT	TRIMMER 10K OHM 0.5W PC PIN TOP	R12	FP-3296W-MFG	CMP-07234-000024-1	1
L7805CD2T	L7805CD2T-35V- 5V- 1.5A REGULATOR	U1	DPAK228P1085X240-3N	L7805CD2T	1