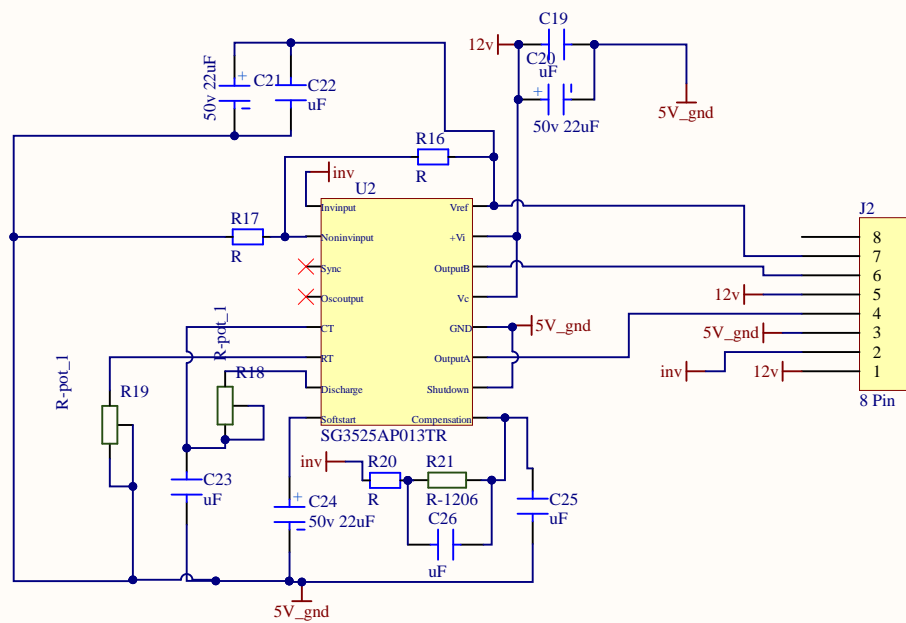
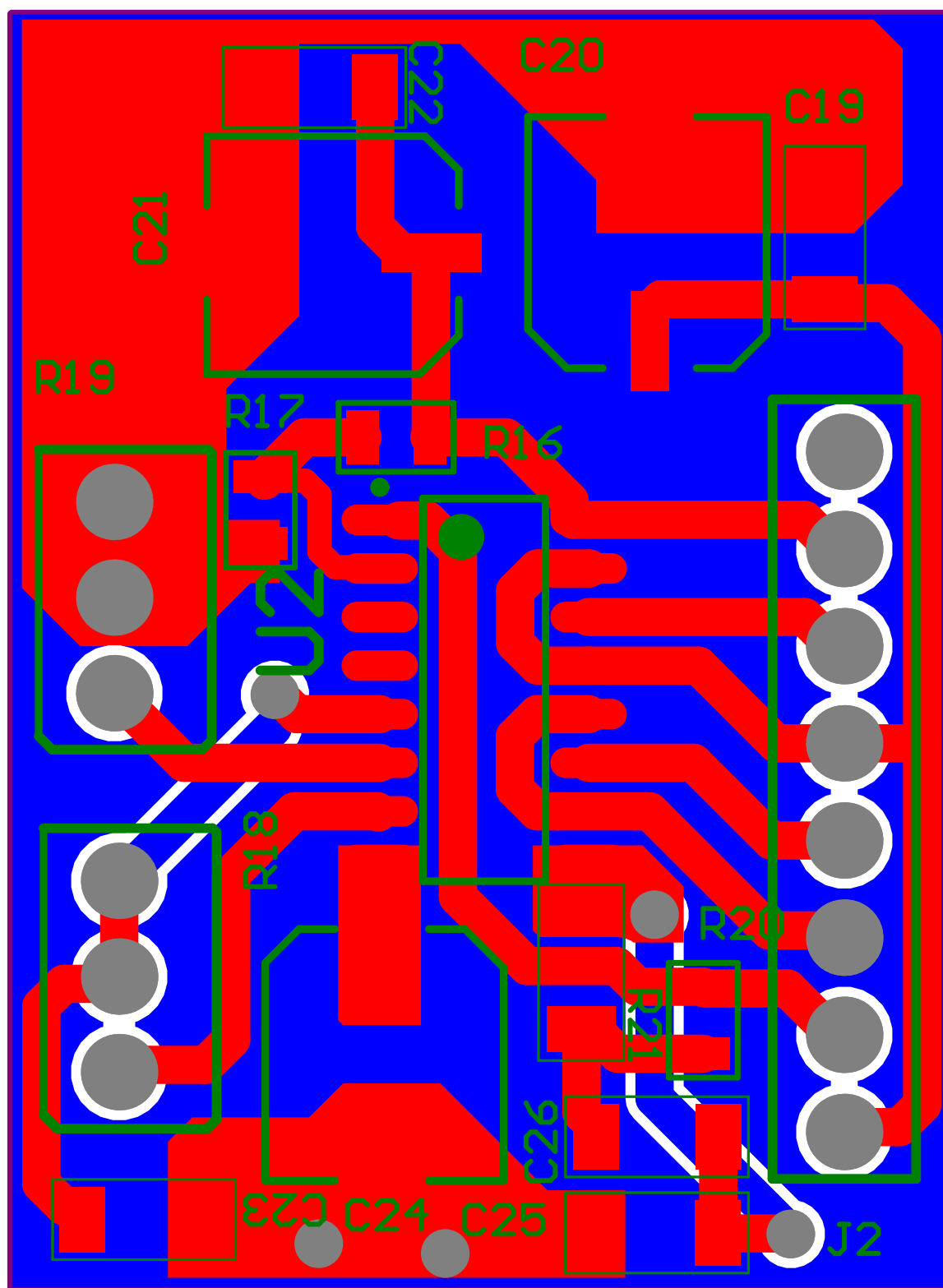
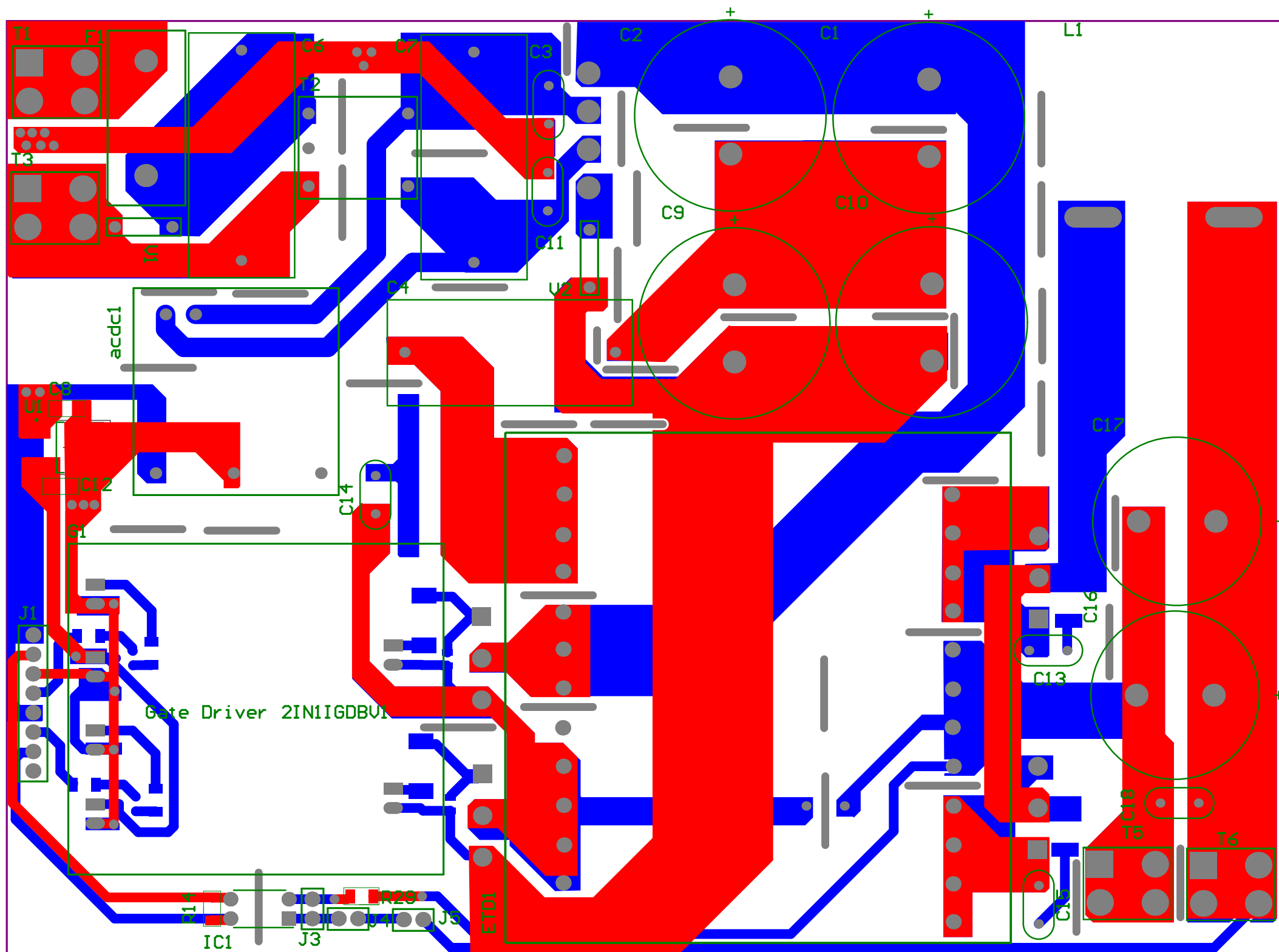


Title		
Efficiency challenge SMPS		
Size	Number	Revision
A4		
Date:	2/24/2022	Sheet of
File:	C:\Users\...\SMPSProject.SchDoc	Drawn By: Halil TEPEDELEN



Title		
Size	Number	Revision
A4		
Date:	2/24/2022	Sheet of
File:	C:\Users\...\controller.SchDoc	Drawn By:





Comment	Description	Designator	Footprint	LibRef	Quantity
ac/dc		acdc1	ac/dc	ac/dc	1
Rectifier		br1	Rectifier	Rectifier	1
220uF		C1, C2, C9, C10	Koshin	CAP.EL.220uF 500V	4
2n2 2000v		C3, C5, C11, C13, C14, C15, C18	2n2 2000v	2n2 2000v	7
2.2uF X2		C4, C6, C7	CAP.POL 2.2UF x2	2.2uF X2	3
uF		C8, C12, C19, C22, C23, C25, C26	C-1206	C-1206	7
63v 4700uF	PKL5-063V472MM450 Aluminum Electrolytic Capacitors - Snap In 63volts 4700uF 20%	C16, C17	Koshin 63v 4700 cap	Aluminum Electrolytic Capacitors	2
50v 22uF		C20, C21, C24	50v 22uf	50v 22uF	3
ETD-59		ETD1	ETD-59	ETD-59	1
fuse		F1	fuse holder	fuse	1
GateDriver Board		G1	Gate Driver	GateDriver Board	1
EL817(C)	Integrated Circuit	IC1	DIP762W60P254L458 H480Q4N	EL817(C)	1
8 Pin		J1, J2	8 pin connector	8 Pin	2
2 Pin		J3, J4, J5	2pin	2 Pin	3
Lgrid		L1	Lgrid	Lgrid	1
BC817-40,235	Transistor BJT NPN	Q1, Q4	SOT95P230X110-3N	BC817-40,235	2
Sic Mosfet	SiC Mosfet To247	Q2, Q5	IFX-PG-TO247-3-41	Sic Mosfet To247	2
Schotky	SiC Mosfet To247	Q3, Q6	IFX-PG-TO247-3-41	Sic Mosfet To247	2
150k 1w	10 1w	R1, R2, R24, R25	R-2512	R-2512	4
220 2w	10 1w, 220 2w	R3, R4, R7, R15, R26, R27, R28	R-2512	R-2512	7
R-1206	Res1206	R5, R9, R11, R13, R14, R21	R-1206	R-1206	6
10 1w	10 1w	R6, R10	R-2512	R-2512	2
1		R8, R12	R-2512W	0207 melf	2
R		R16, R17, R20	R-0805R	R 0805	3
R-pot_1	Res1206	R18, R19	pot	R-pot_1	2
10K		R22, R23	R-0805R	10K 0805	2
R-1206_1	Res1206	R29	R-1206	R-1206_1	1
TCon		T1, T3, T5, T6	tCon	Terminal Connector	4
Transformer		T2	Transformer	Transformer	1
L78M05CDT		U1	TO-252	L78M15CDT_1	1
SG3525AP013TR	IC REG CTRLR BCK/PSH-PULL 16SOIC	U2	SOIC16N SG3525	SG3525AP013TR	1
Varistor		V1	varistor	Varistor	1
NTC		V2	varistor	Varistor	1