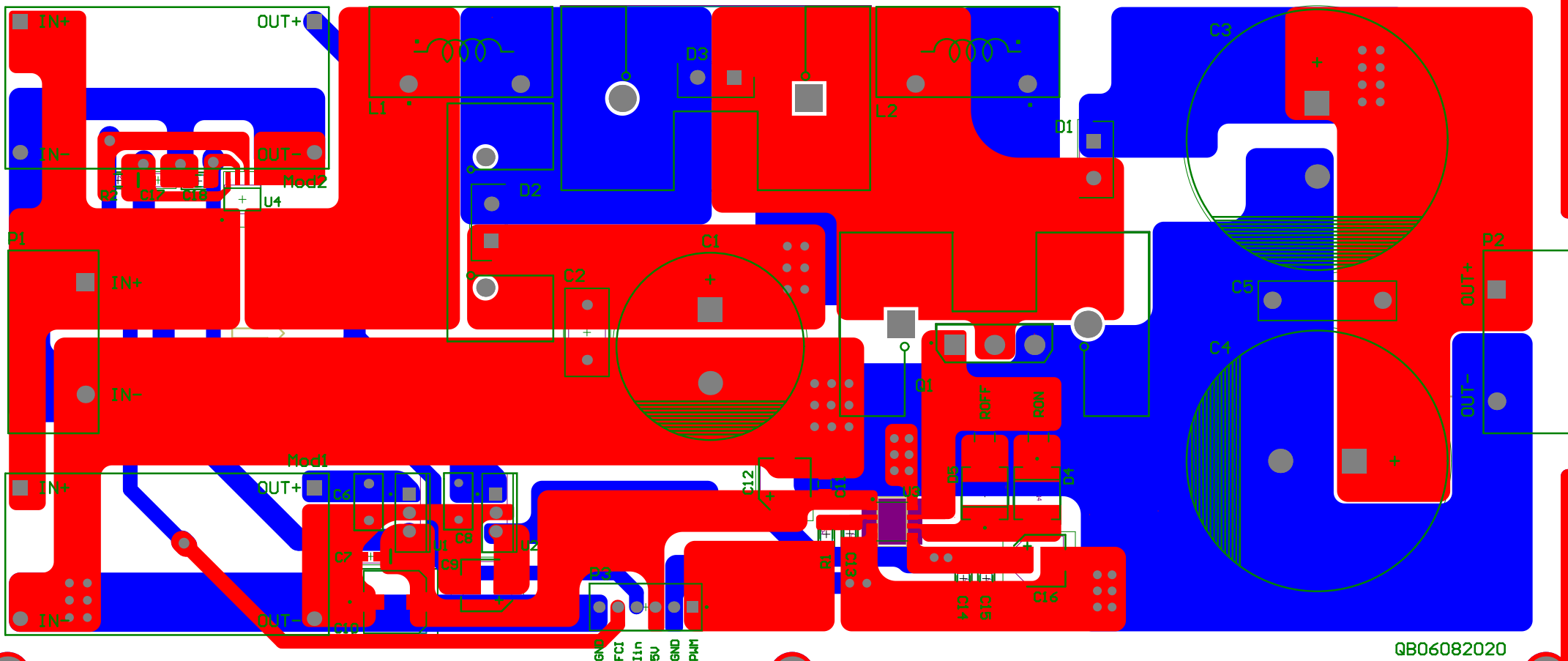


Julian Andres Villarreal Sierra
Proyecto de Grado - PUJ

Quadratic Boost - v0.2

30 - 40 VDC



Comment	Description	Designator	Footprint	LibR
EET-UQ2C122CA	Capacitor Polarised	C1	CAPPRD1000W200D	EET
150nF, 250V	WCAP-FTBP Film Cap	C2	WCAP-FTBP_L10.5W	890
EET-UQ2G561EA	Capacitor Polarised	C3, C4	CAPPRD1000W200D	EET
Capacitor Film 400V DC KEMET		C5	Cap Film 18x5	Cap
Capacitor FILM 0.47uF 5% 63VDC		C6, C8	Capacitor 5mm Radia	Cap
T491A225K016AT	Tantalum Capacitor,	C7, C17	KEMT-T491-A_N	CMF
EMZR500ARA101MF8	CAP ALUM 100UF 20%	C9	CAP6.3X8	EMZ
EEE-1HA101UP	CAP ALUM 100UF 20%	C10	FP-SF-MFG	CMF
CL31B105KBHNNNE	Cap Ceramic 1uF 50V	C11	FP-CL31-IPC_B	CMF
EEV226M050A9GAA	CAP ALUM SMD 1050	C12	CAP6.3X5.65	EEV
CL31C330JBCNNNC	Cap Ceramic 33pF 50	C13	FP-CL31-IPC_B	CMF
CL31B224KBFNFNE	Cap Ceramic 220nF 5	C14	FP-CL31-IPC_B	CMF
CL31B106KBHNNNE	CAP CER 10UF 50V	C15	FP-CL31-IPC_B	CMF
EDH476M050A9HAA	CAP ALUM SMD 1050	C16	CAP6.3X8	EDH
C1206C471J5GACTU	1206 C 470pF Ceram	C18	FP-C1206C-EB-IPC_B	CMF
STPSC8065D	Diode	D1	TO505P460X1020X19	STP
STPSC8065D_HEATS	Diode with heatsink	D2	TO505P460X1020X19	STP
STPSC8065D_HEATS	Diode with heatsink	D3	TO505P460X1020X19	STP
SS34-E3/57T	DIODE SCHOTTKY 40	D4, D5	FP-95402-MFG	CMF
Inductor de potencia	Externo	L1, L2	KF7.62-P3	Ind
DC-DC LM2596	LM2596HV DC-DC Ad	Mod1, Mod2	Mod 21x43 mm	DC-
Terminal Block 2P - L	Bornera con	P1	KF7.62-P2 - TB - L	Ter
Terminal Block 2P - R	Bornera con	P2	KF7.62-P2 - TB - R	Ter

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Mod2

LM2596

IN+ IN- OUT+ OUT-

100 50V RVT 220 35V RVT

R2 C17 C18 U4

P1

30 - 40 VDC

IN+ IN-

Mod1

LM2596

IN+ IN- OUT+ OUT-

100 50V RVT 220 35V RVT

C6 C7 C8 C9 C10 U1 U2

L1 L2

D3

D2

C1

C2

Top Cover Marking

Q1

D5 D4

R0FF R0N

C12 C11 C13 C14 C15 C16

U3

P3

GND FCI Iin 5V GND PWT

C3

C4

C5

P2

OUT+

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