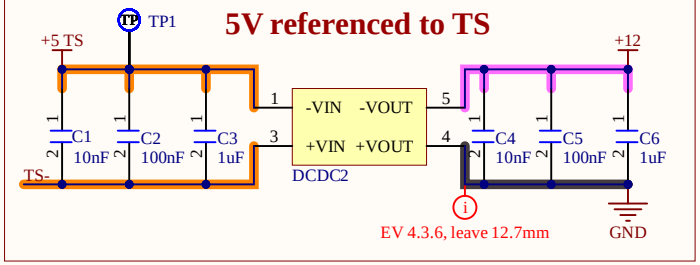
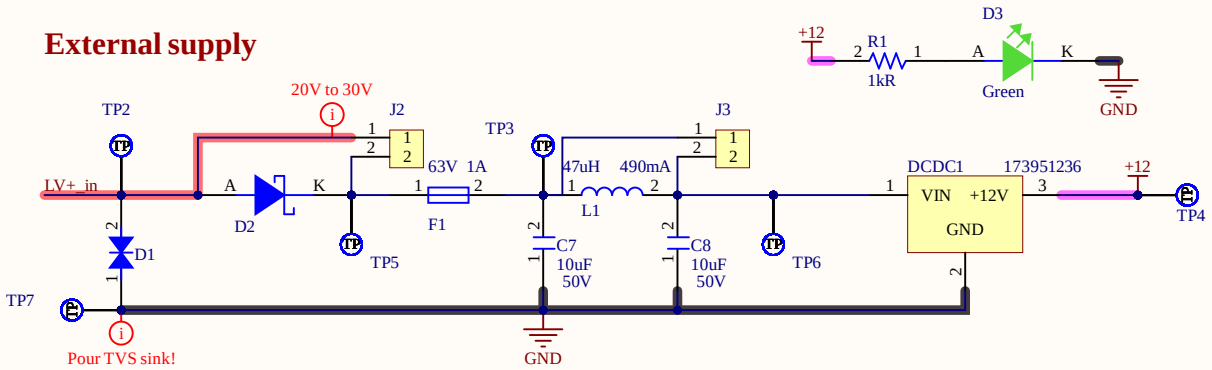
5V referenced to TS



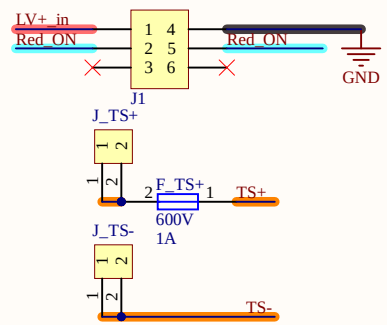
This PCB is intended to be used inside a TS enclosure, and monitors the TS voltage. Red_ON is a signal to be input to TSAL Control so it can control the red light.

Cyan: External signal
Orange: High Voltage
Red: Untreated supply
Pink: Treated supply

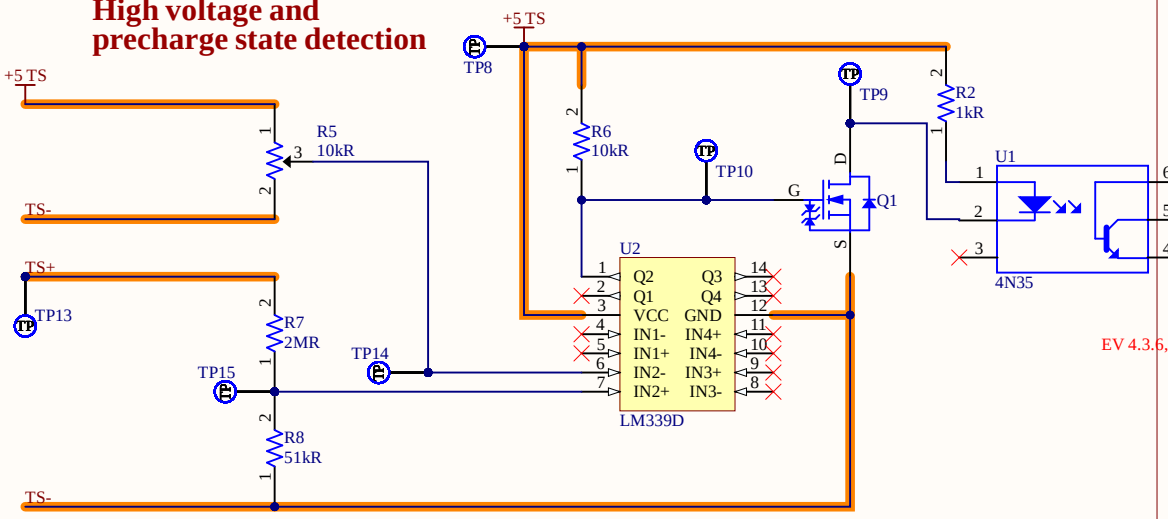
External supply



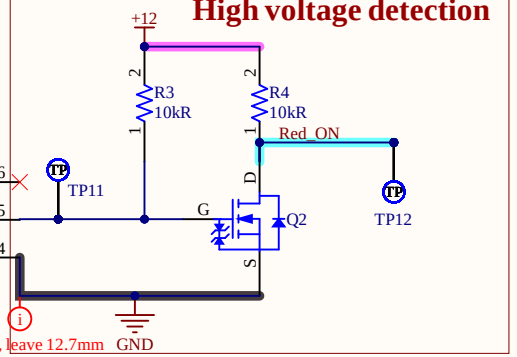
Connectors



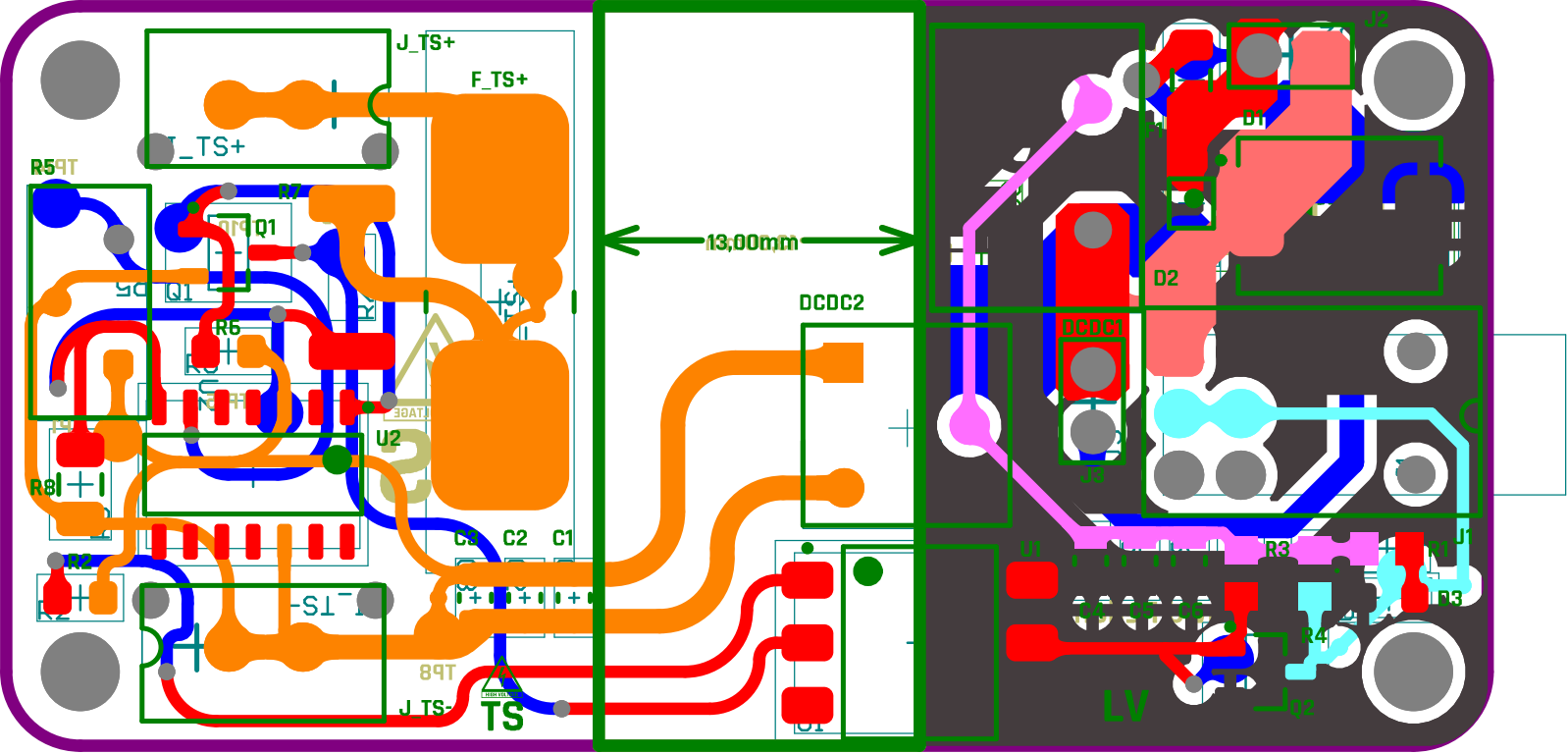
High voltage and precharge state detection

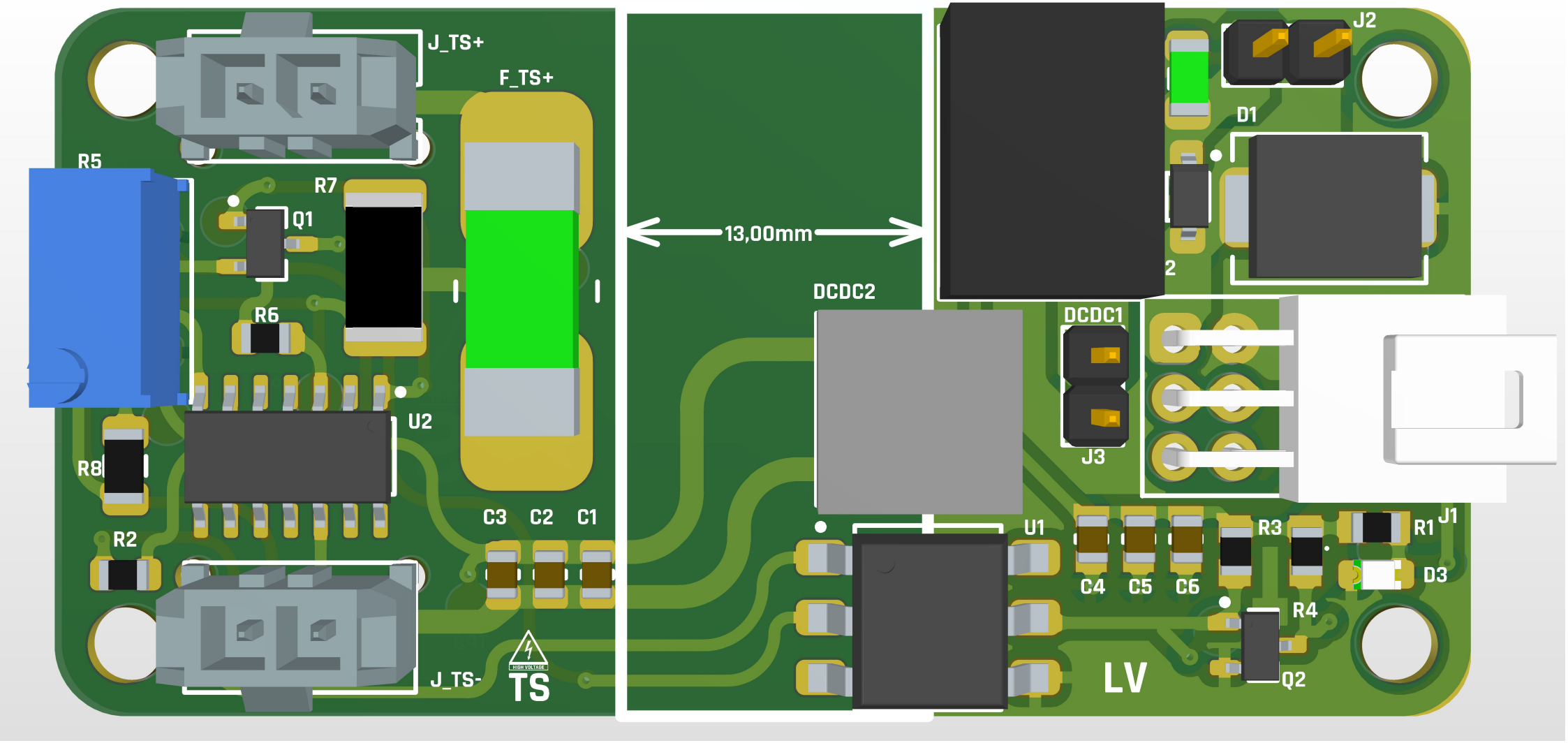


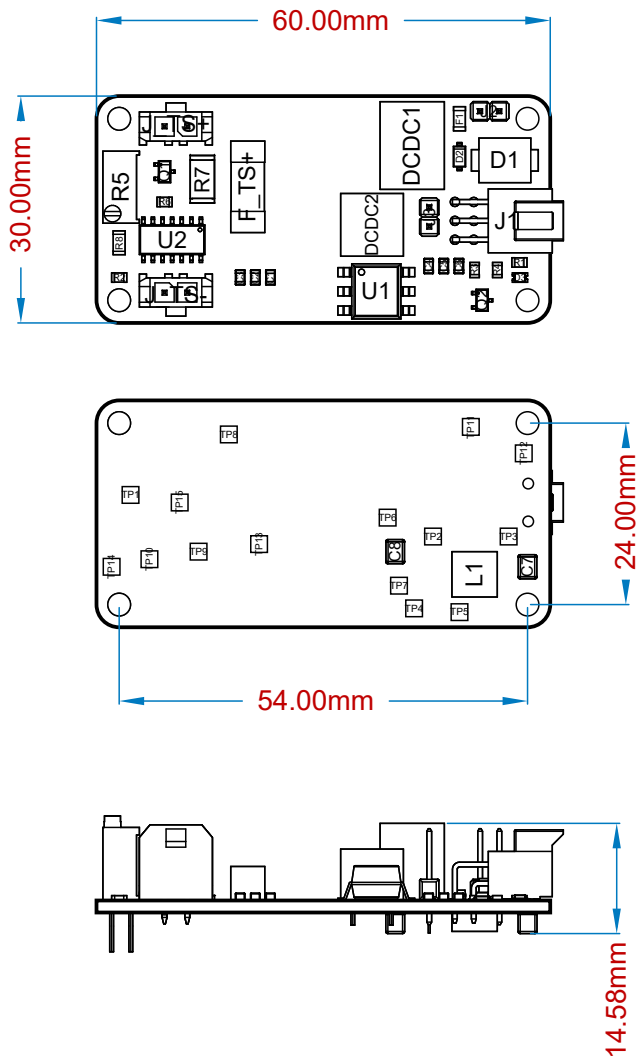
High voltage detection



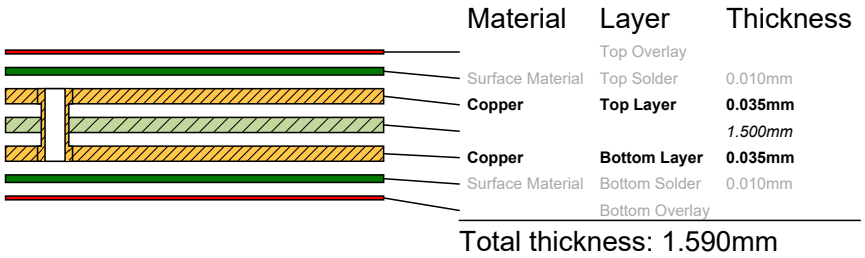
Company: e-Tech Racing	e-techracing.es		
Project: TSAL_Inverters	Variant: [No Variations]		
Size: -	Page Contents: TSAL_Inverters.SchDoc	Version: 1.0	
		Department: Powertrain	
Author: David Redondo	dredondovinolo@gmail.com	Sheet 1 of 1	
Checked by: David Redondo		Date: 11/12/2022	


J_TS+
F_TS+
R5
R7
Q1
R6
U2
R8
R2
C3
C2
C1
J_TS-
TS
13,00mm
DCDC2
DCDC1
D1
D2
J2
J3
U1
R3
J1
D3
R4
Q2
LV


J_TS+
F_TS+
R5
R7
Q1
R6
U2
R8
R2
C3
C2
C1
J_TS-
HIGH VOLTAGE
TS
13,00mm
DCDC2
J2
D1
DCDC1
J3
U1
C4
C5
C6
R3
R1
J1
D3
R4
Q2
LV



Designator	Name	Quantity
C1, C4	885012207092	2
C2, C5	885012207098	2
C3, C6	885012207103	2
C7, C8	GRJ32ER71H106KE11L	2
D1	824551301	1
D2	MBR0530	1
D3	150080VS75000	1
DCDC1	173951236	1
DCDC2	RNM-1205S/P	1
F1	0437001.WRA	1
F_TS+	485001	1
J1	J_NanoFit_2x3	1
J2, J3	61300211121	2
J_TS-, J_TS+	436500215	2
L1	CDC5D23BNP-470KC	1
Q1, Q2	SQ2318BES-T1_GE3	2
R1, R2	CR0805-JW-102ELF	2
R3, R4, R6	CR0805-JW-103ELF	3
R5	3296W-1-103LF	1
R7	R2M-2512FTK	1
R8	CRCW120610K0FKEA	1
U1	4N35	1
U2	LM339D	1



TSAL Inverters