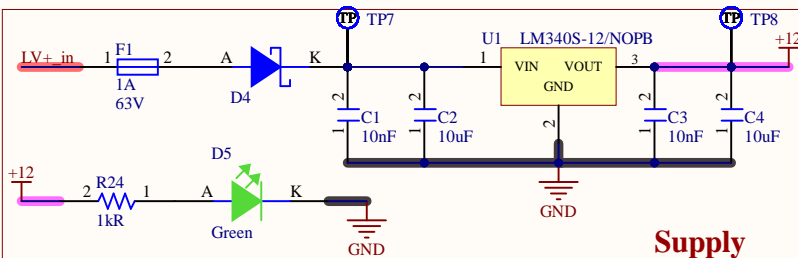
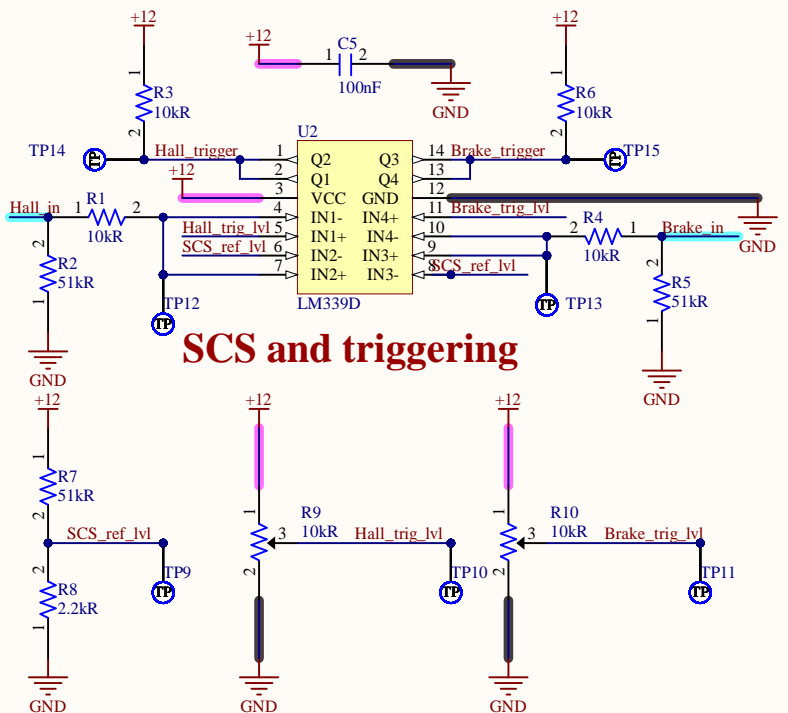


Connector and mounting holes



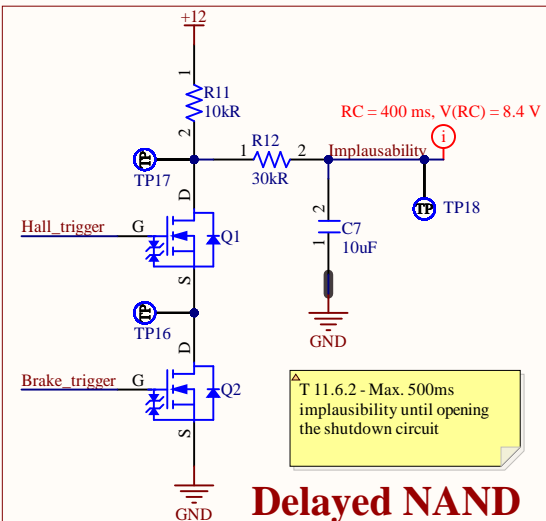
Supply

Red: Untreated supply
Cyan: External signal
Pink: Treated supply
Purple: Shutdown chain



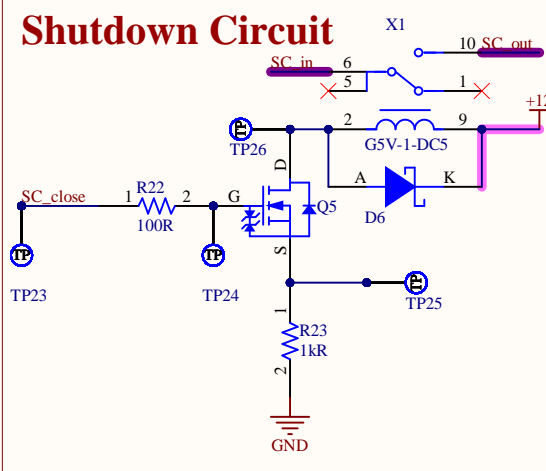
SCS and triggering

The BSPD can handle 0-5V inputs. If one of the sensors' signals is 0V, it will cause the Shutdown Circuit to be open because they both are SCS. the trigger level for each signal is configured with [R9] and [R10].

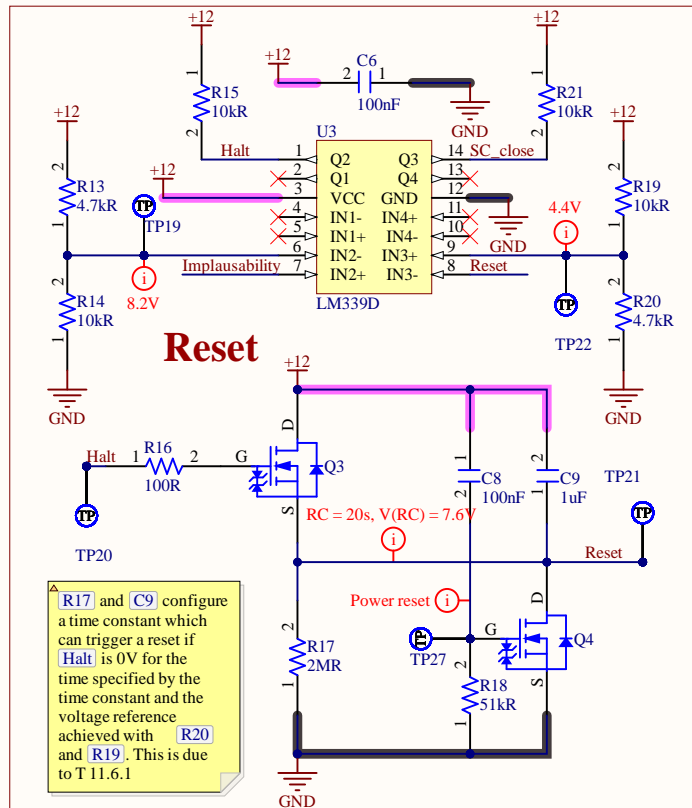


Delayed NAND

T 11.6.2 - Max. 500ms implausibility until opening the shutdown circuit



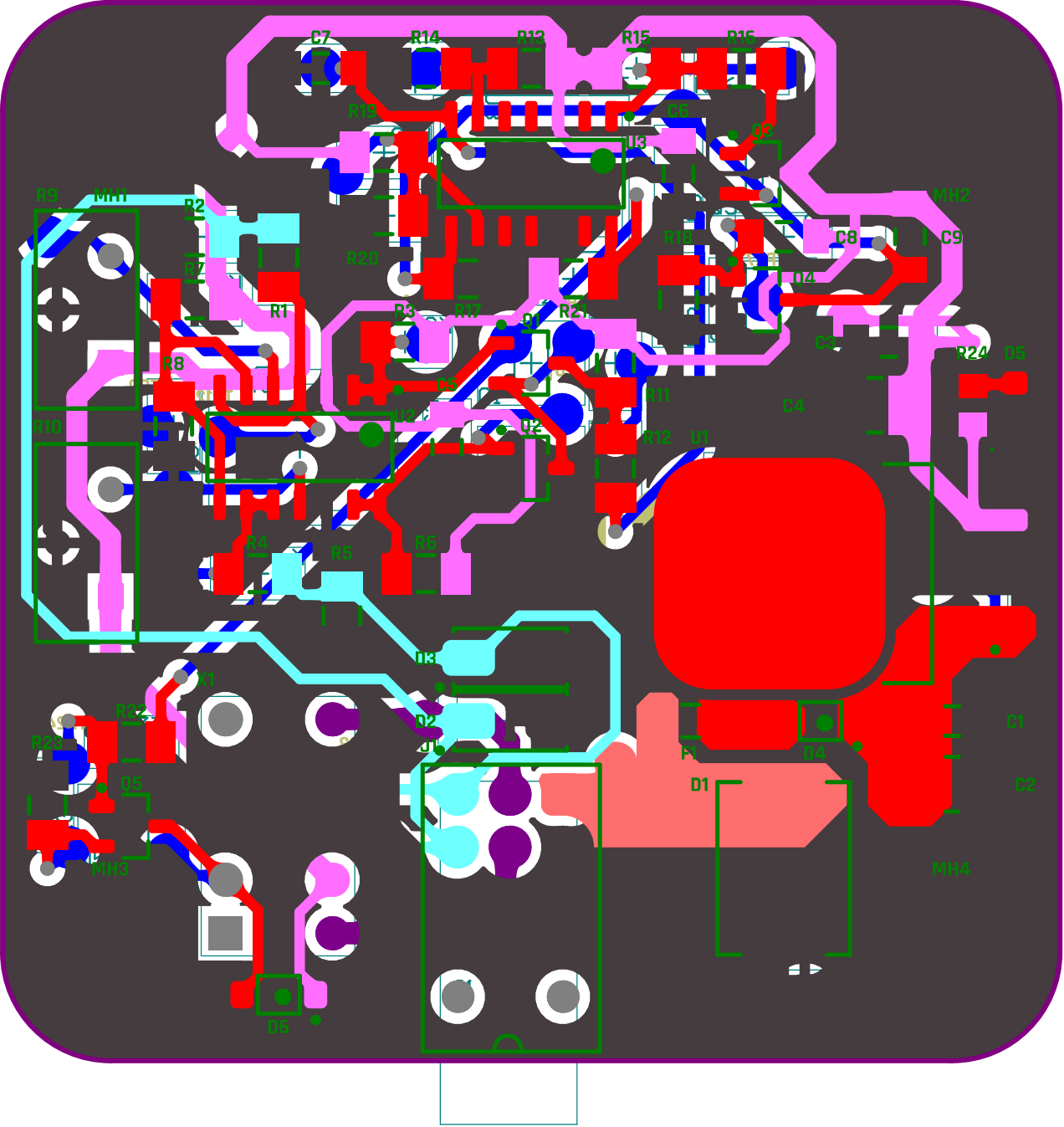
Shutdown Circuit

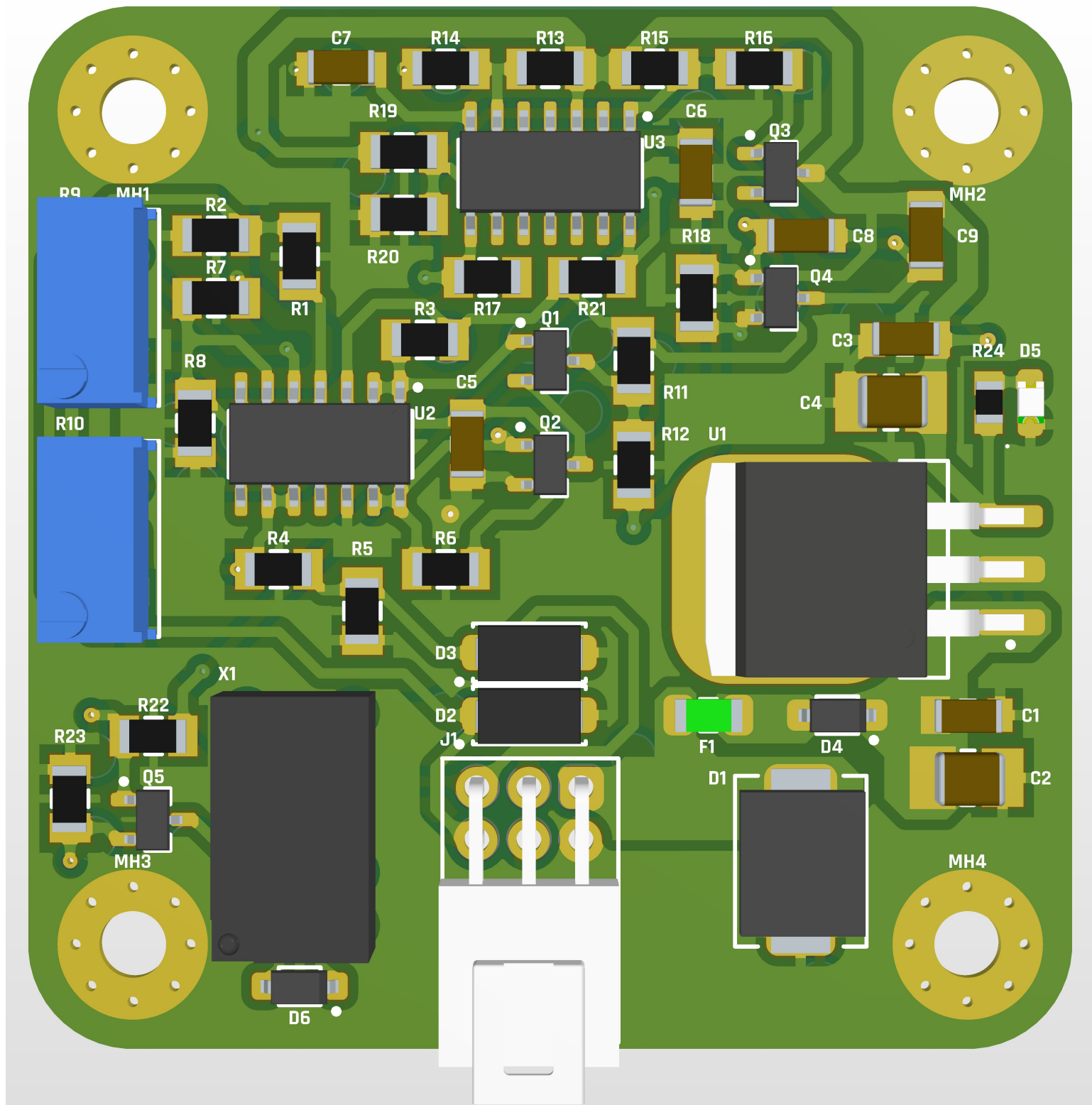


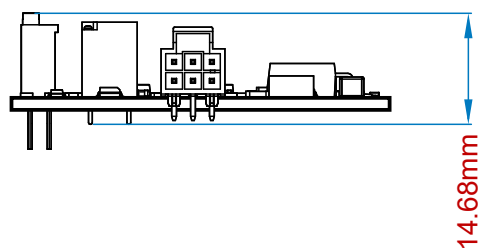
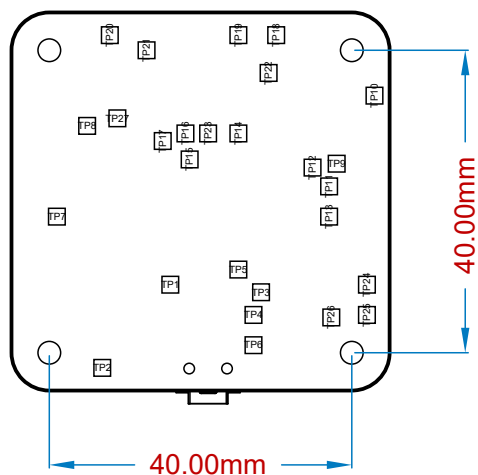
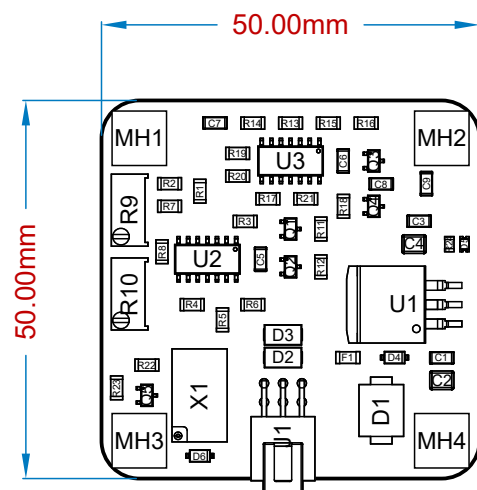
Reset

[R17] and [C9] configure a time constant which can trigger a reset if [Halt] is 0V for the time specified by the time constant and the voltage reference achieved with [R20]. This is due to T 11.6.1

Company: e-Tech Racing		e-techracing.es		
Project: BSPD		Variant: [No Variations]		
Size: -	Page Contents: BSPD.SchDoc		Version: 2.0	Department: PCBs
Author: David Redondo		dredondovinolo@gmail.com		
Checked by: David Redondo			Date: 28/03/2023	







Designator	Name	Quantity
C1, C3	885012008055	2
C2, C4	GRJ32ER71H106KE11L	2
C5, C6, C8	885012208058	3
C7	885012208018	1
C9	885012208036	1
D1	824551301	1
D2, D3	824501600	2
D4, D6	MBR0530	2
D5	150080VS75000	1
F1	0437001.WRA	1
J1	J_NanoFit_2x3	1
MH1, MH2, MH3, MH4	Mounting_Hole_M3	4
Q1, Q2, Q3, Q4, Q5	CPH3455-TL-H	5
R1, R3, R4, R6, R11, R14, R15, R19, R21	CRCW120610K0FKEA	9
R2, R5, R7, R12, R18	CRCW120610K0FKEA	5
R8	CR1206-FX-2201ELF	1
R9, R10	3296W-1-103LF	2
R13, R20	CRS1206-FX-4701ELF	2
R16, R22	CRG1206F100R	2
R17	HVC1206-2M0FT3	1
R23	ERJT08J102V	1
R24	CR0805-JW-102ELF	1
U1	LM340S-12/NOPB	1
U2, U3	LM339D	2
X1	G5V-1-DC5	1

