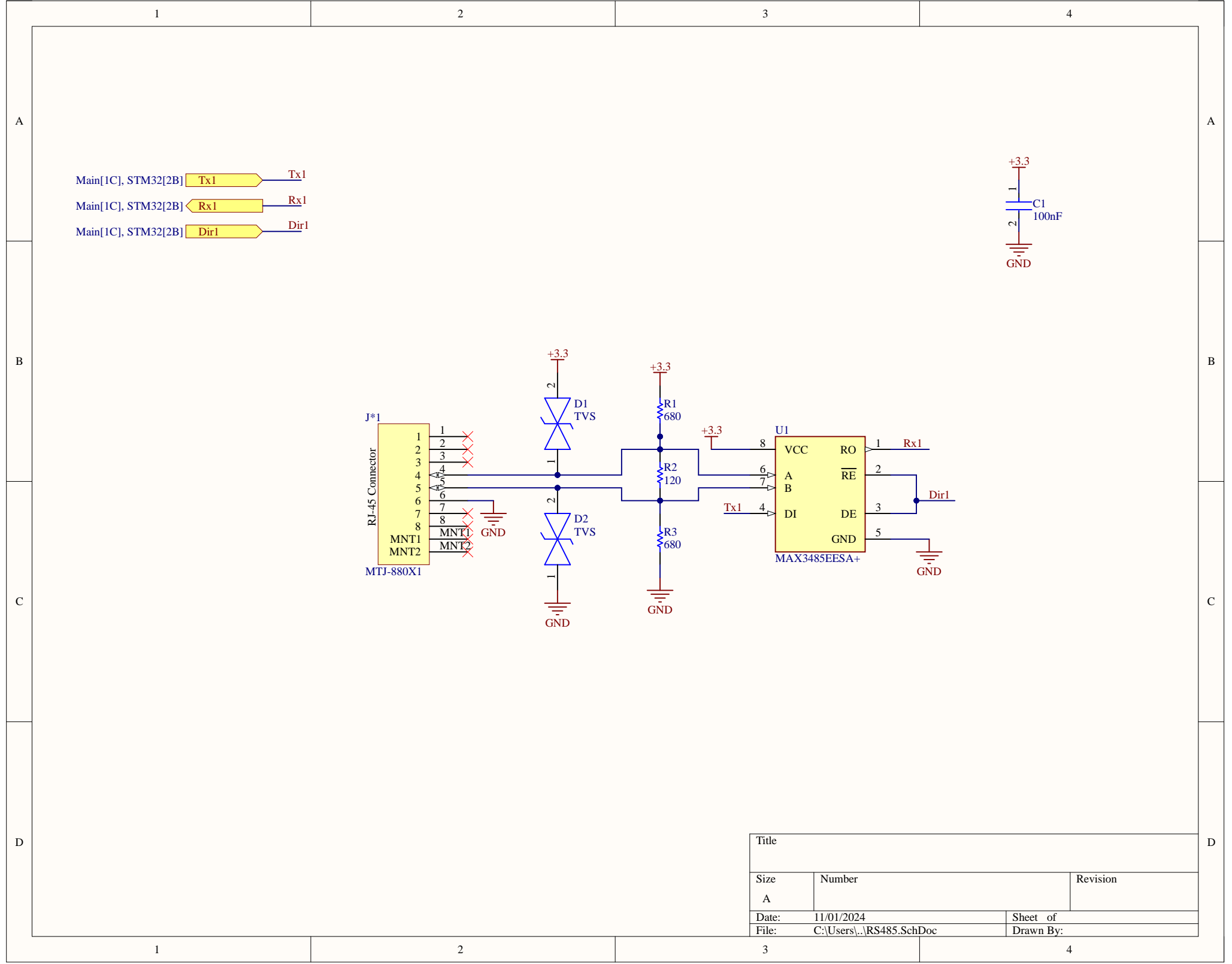
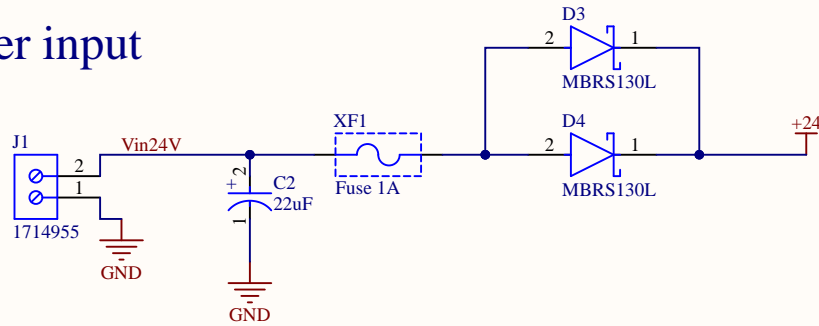


Designator  
Power\_supply.SchDoc

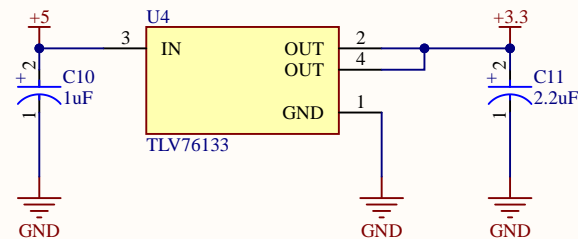
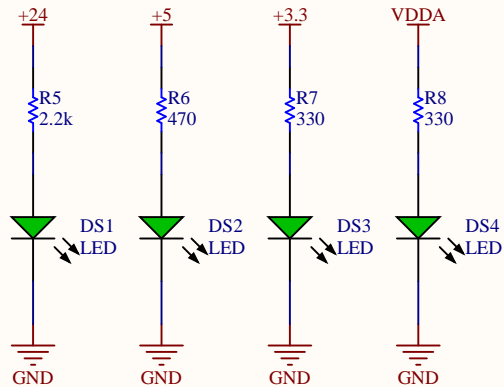
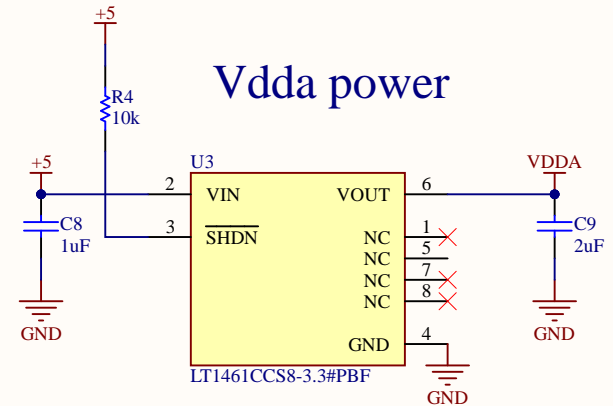
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Date:	11/01/2024		Sheet of
File:	C:\Users\...\Main.SchDoc		Drawn By:



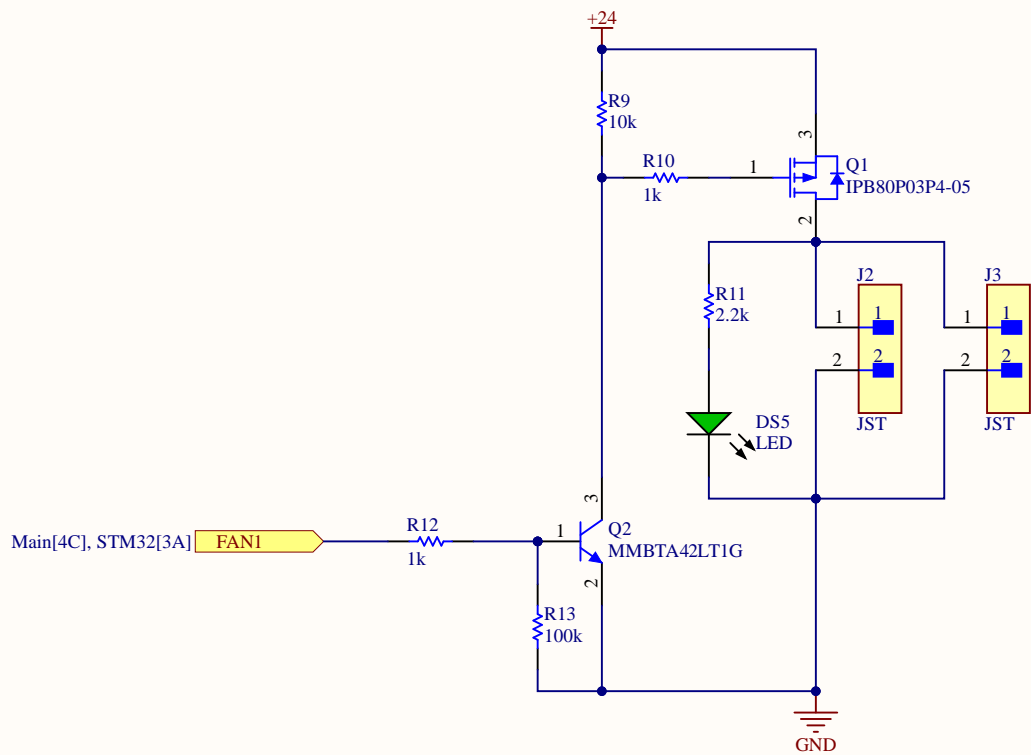
## Power input



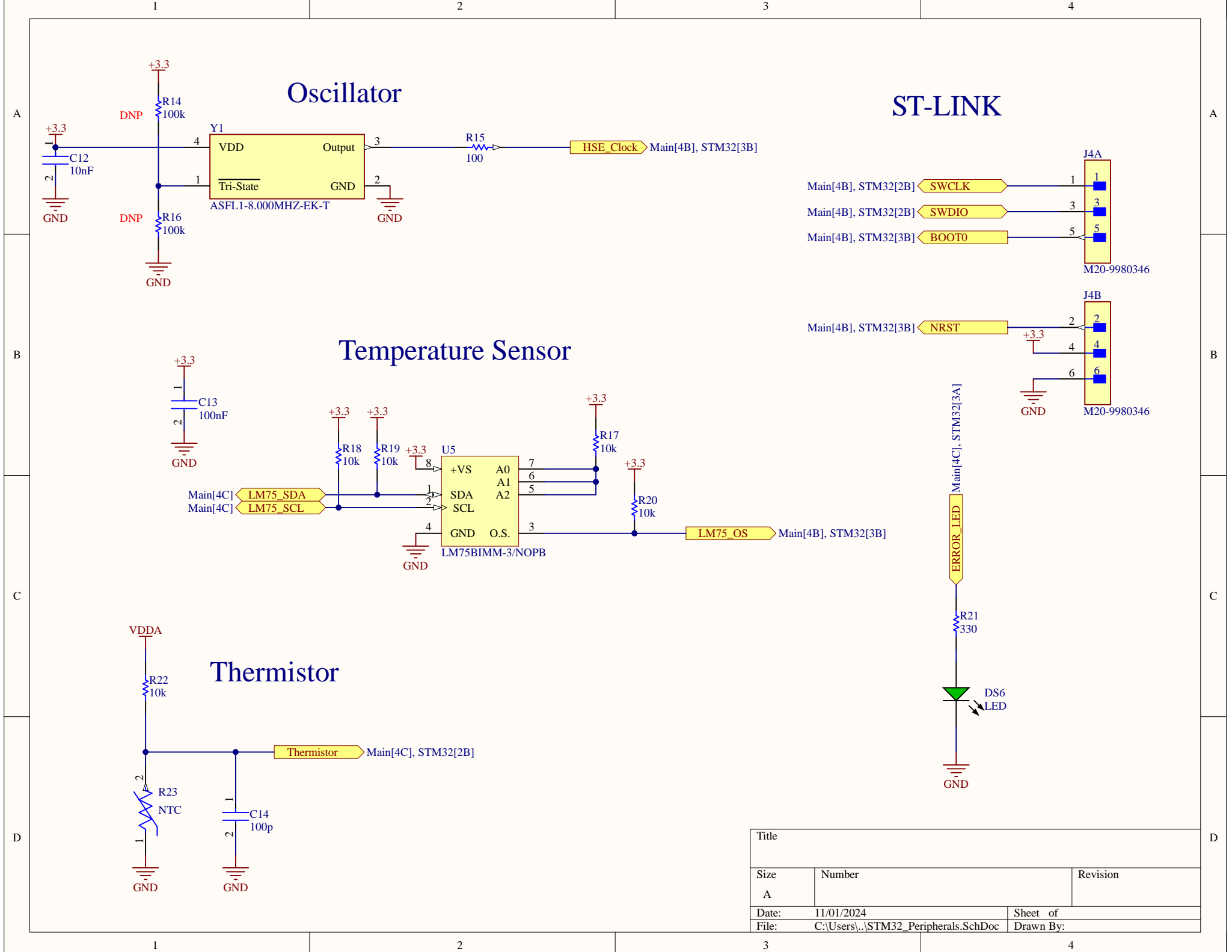
## Vdda power



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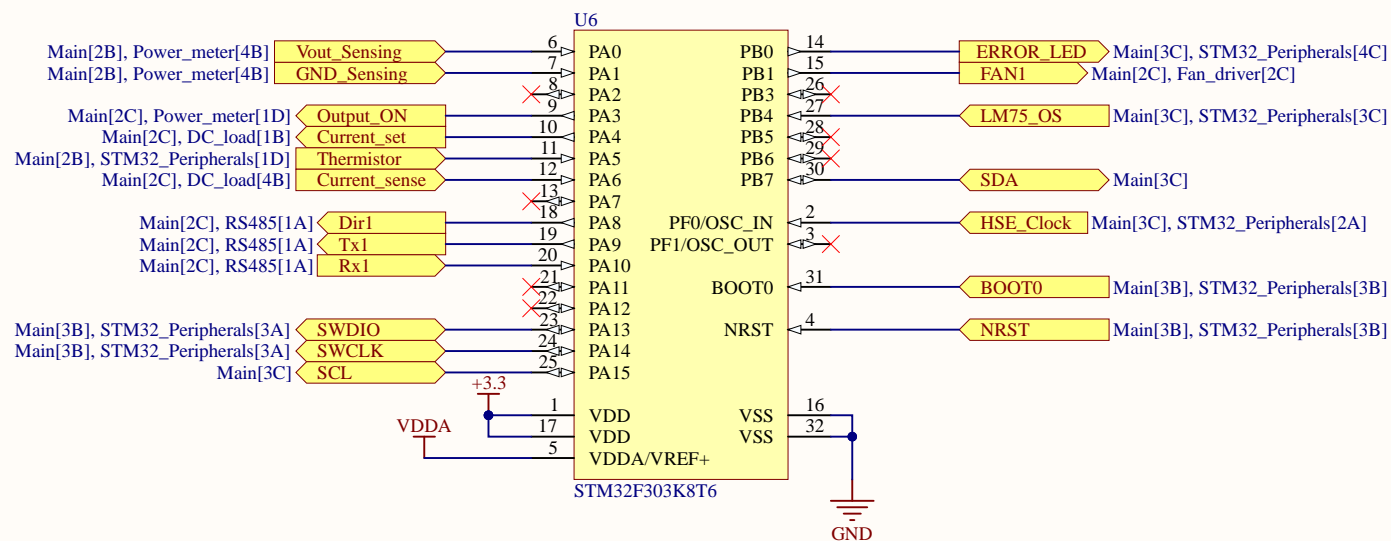


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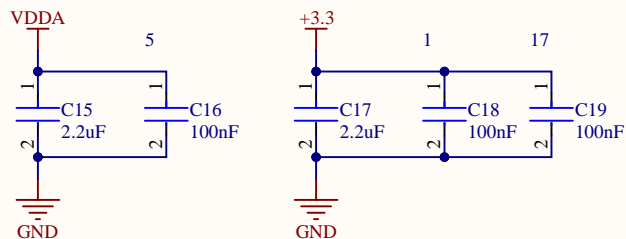


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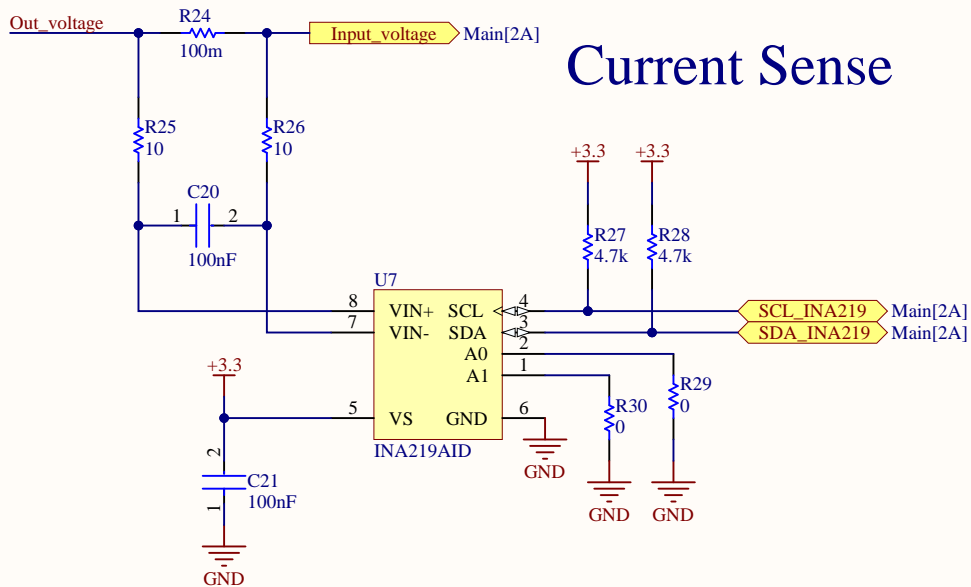
# MICROCONTROLLER



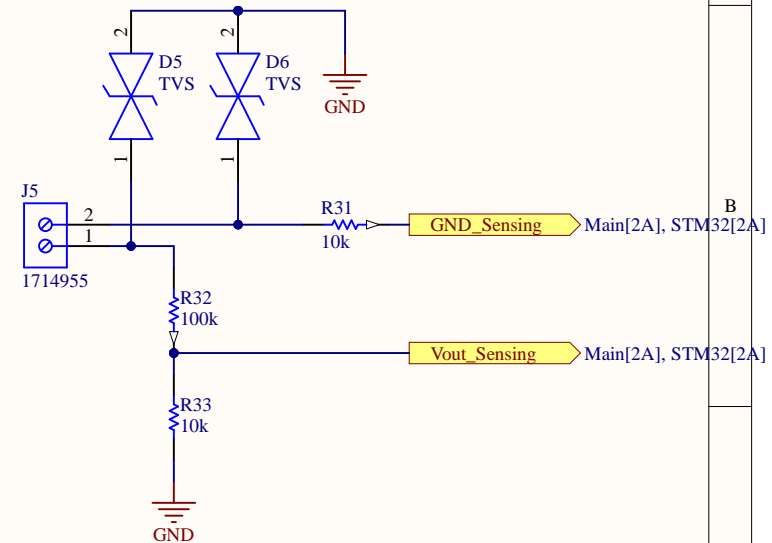
## Decoupling capacitors



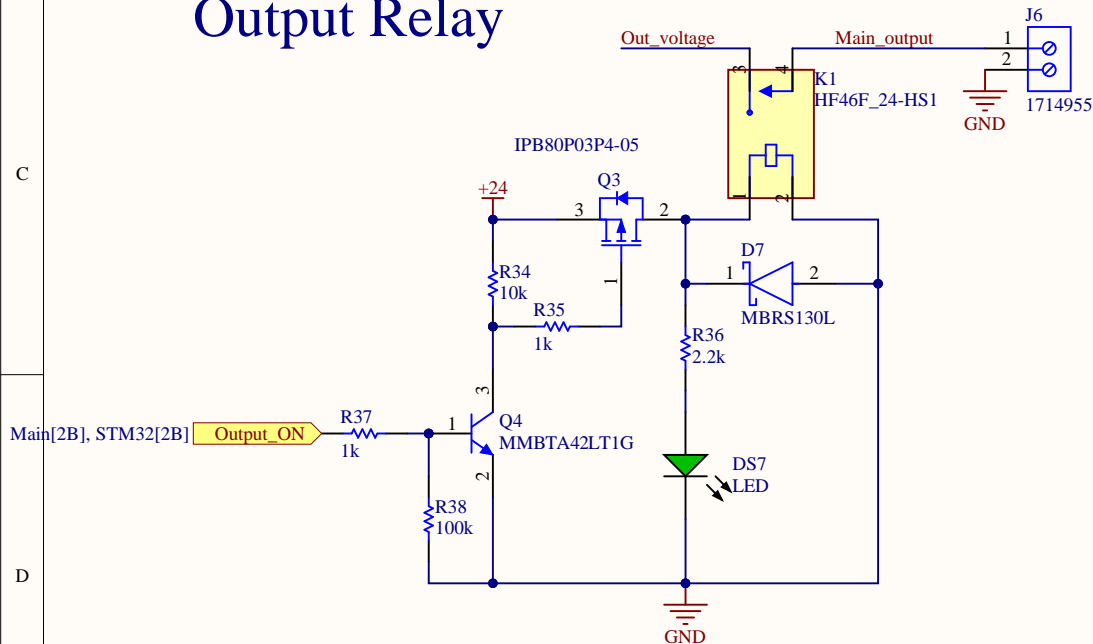
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Date:	11/01/2024	Sheet of
File:	C:\Users\...\STM32.SchDoc	Drawn By:



## Current Sense

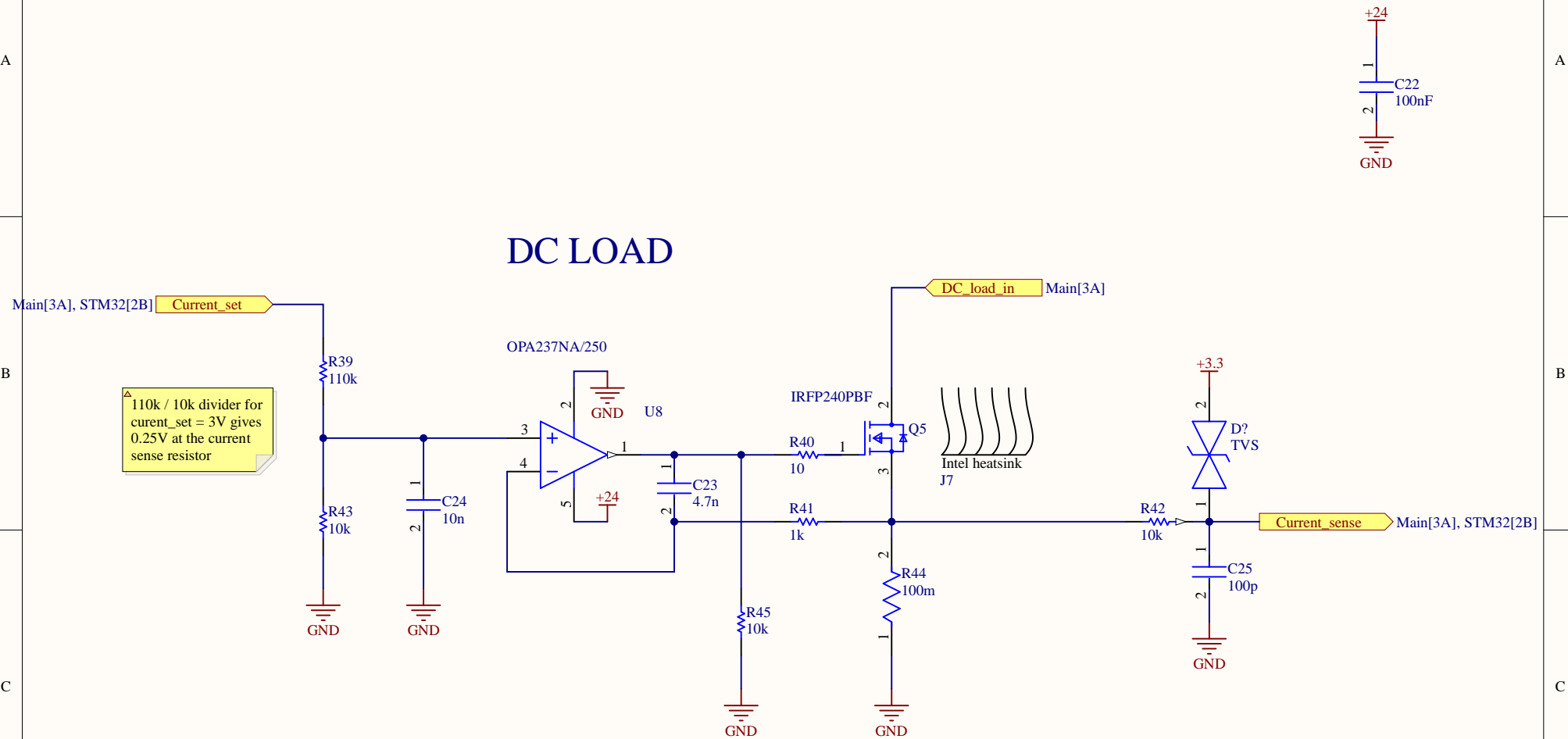


## Output Relay



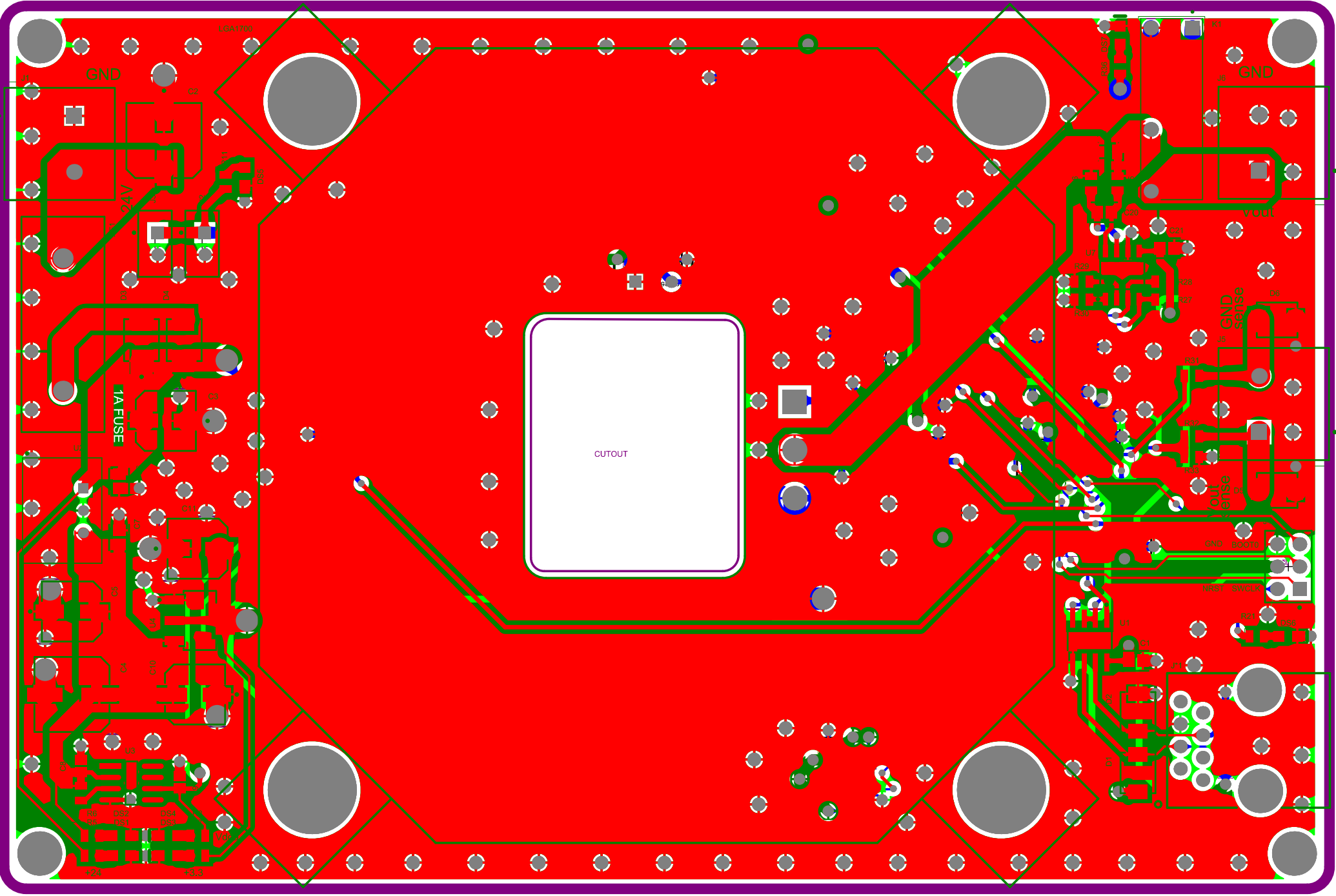
Title		
Size A	Number	Revision
Date:	11/01/2024	Sheet of
File:	C:\Users\...\Power_meter.SchDoc	Drawn By:

# DC LOAD



Title		
Size	Number	Revision
A		
Date:	11/01/2024	Sheet of
File:	C:\Users\...\DC_load.SchDoc	Drawn By:





Component	Description	Designator	Footprint	Library	Quantity
100F	General Purpose Ceramic Capacitor 100K, 100V, 10% X7R, 100V, 10% C1, C2	C1, C3, C4, C7, C23, C24, C25	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-047462	
20uF	General Purpose Ceramic Capacitor 20K, 50V, 10% X7R, 50V, 10%	C26	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0547-053208.1	
10uF	General Purpose Ceramic Capacitor 10K, 50V, 10% X7R, 50V, 10%	C15	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0000-050272	
1uF	General Purpose Ceramic Capacitor 1K, 50V, 10% X7R, 50V, 10%	C3	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-052634.1	
1uF	General Purpose Ceramic Capacitor 1K, 50V, 10% X7R, 50V, 10%	C30	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-052634.1	
2.2uF	General Purpose Ceramic Capacitor 2.2K, 50V, 10% X7R, 50V, 10%	C11	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0000-050272	
100p	General Purpose Ceramic Capacitor 100K, 50V, 10% X7R, 100V, 10% General Purpose Ceramic Capacitor 100K, 50V, 10% X7R, 100V, 10%	C21	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-047462	
10p	General Purpose Ceramic Capacitor 10K, 50V, 10% X7R, 100V, 10% General Purpose Ceramic Capacitor 10K, 50V, 10% X7R, 100V, 10%	C14, C28	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-047462	
2.2uF	General Purpose Ceramic Capacitor 2.2K, 50V, 10% X7R, 50V, 10%	C16, C17	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-047462	
100F	Capacitor 100F 200VDC 50Vdc B4C RO3+200V Automotive T2	C18, C19, C20	0408054-3 0.1 x 0.1, 1.5k (PCB)	040-0000-054562	
4.7u	General Purpose Ceramic Capacitor 4.7K, 50V, 10% X7R, 100V, 10%	C23	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-047462	
10u	General Purpose Ceramic Capacitor 10K, 50V, 10% X7R, 100V, 10%	C24	0408054-2 01.0 x 0.1, 1.5k (PCB)	040-0007-047462	
TUS	TEACOR TUS-20V RO3+20V Automotive T2	DL, DL1, DL2, DL3, DL4, DL5, DL6, DL7	0408054-MFG	040-1225-003038.1	
MERS30L	MERS30L Resistor 1/4W, 300V, 1% Precision, B, Element, 300V, 1% RO3+20V Automotive T2	DL, DL4, DL7	040-4304-MFG	040-00278-209166	
LED	Chip LED, Green, 2.2 V, 40mA SMD, 2.2 x 2.2 x 2.2 RoHS, RoHS, RoHS	DL1, DL2, DL3, DL5, DL6, DL7, DL8, DL9	A40CH-SMD-0701-V	040-0000-05920.1	
174695	RoSensistor Block Precision, 174.695, 1.2 x 1.2 mm, Tail Length 5.1 mm, RoHS, RoHS, RoHS	J1, J2, J3	040-174695-V	040-0000-057071.1	
887	CONN-HERM-6P P2353 Automotive T2	J1, J2	040-65824-H, JF, 30	040-174695-003038.1	
M08-080304	CONN-HERM-6P P2353 Automotive T2	J1, J2	040-65824-H, JF, 30	040-0000-05920.1	
Intel Hardware M188001	Intel Hardware M188001	J3	Intel Hardware M188001	Intel Hardware M188001	
4-WF-24483	Relay electromagnetic 4-WF-24483 12VDC, 5A/20VDC SMD, 2.2 x 2.2 x 2.2	J1	RELAY-4-WF-205-05	4-WF-24483-H	
PSB0304-05	2-Wire, 30VDC SMD, 2.2 x 2.2 x 2.2	J1, J2	040-PSB0304-MFG	040-1138-00226.1	
M080421710	High Voltage Transistor, NPN SiC, 40V, 1.2 x 1.2 mm, Tail Length 5.1 mm, RoHS, RoHS, RoHS	C1, C2, C4	040-080421710-V	040-1048-003038.1	
08FF200FF	MC976-200-20V SMD, 2.2 x 2.2 x 2.2	RD	040-08FF200-MFG	040-0200-003038.1	
680	Resistor 680K, 1/4W, 1% SMD, 2.2 x 2.2 x 2.2	RD, RD1	040-08000		