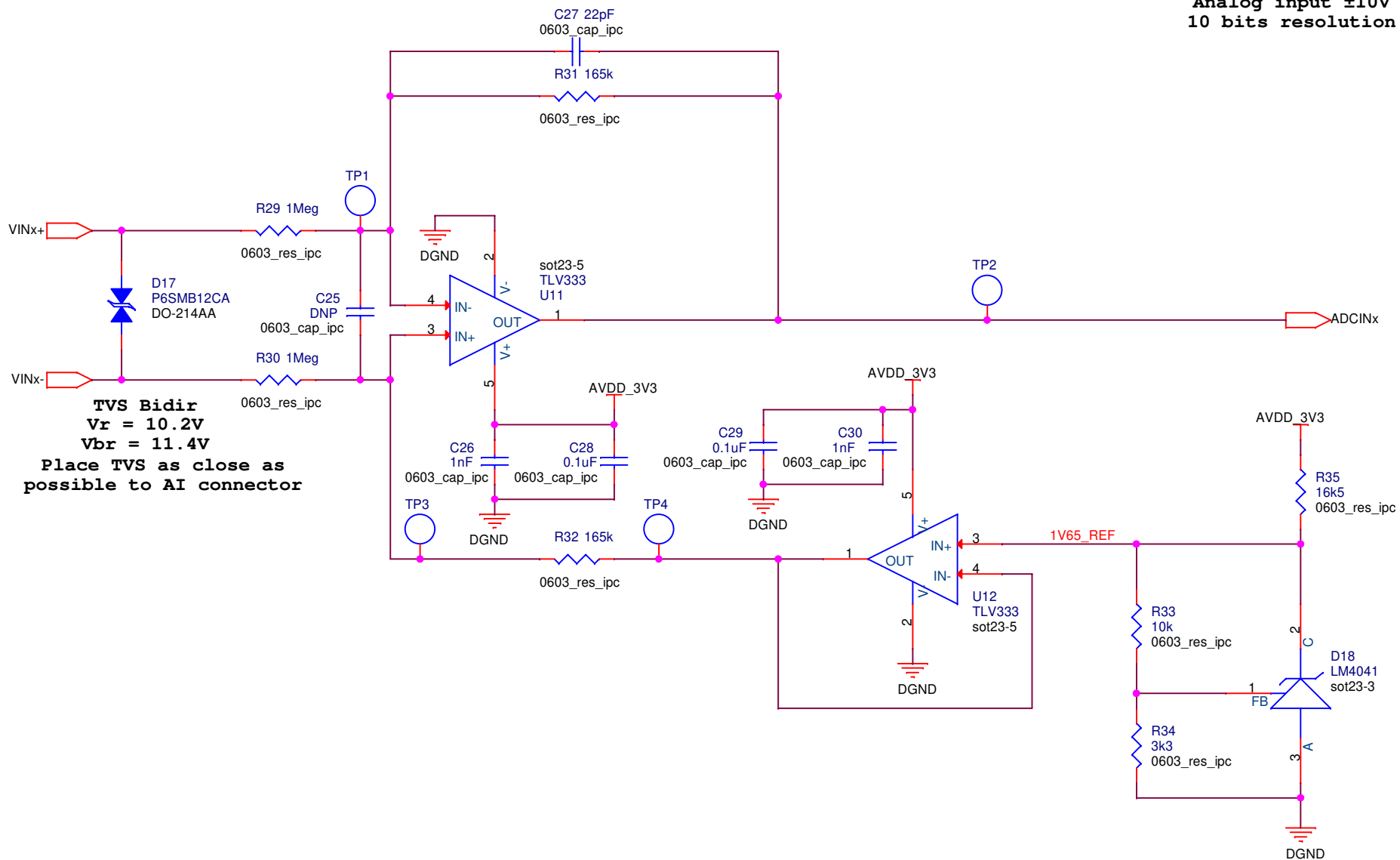


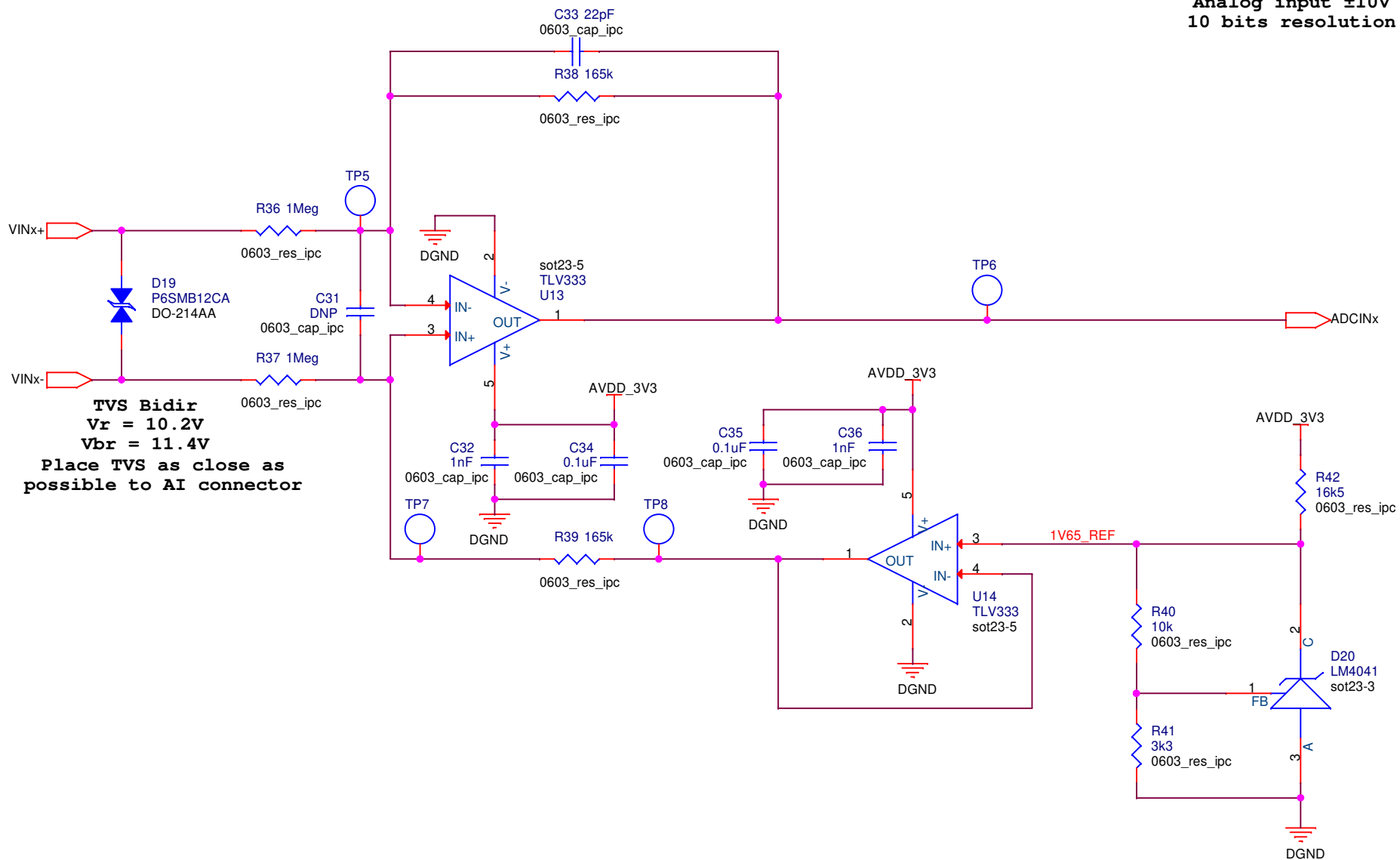
Analog input  $\pm 10V$   
10 bits resolution



-----  
Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title Analog input $\pm 10V$		
Size A	Document Number <Doc>	Rev 0A
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Analog input  $\pm 10V$   
10 bits resolution

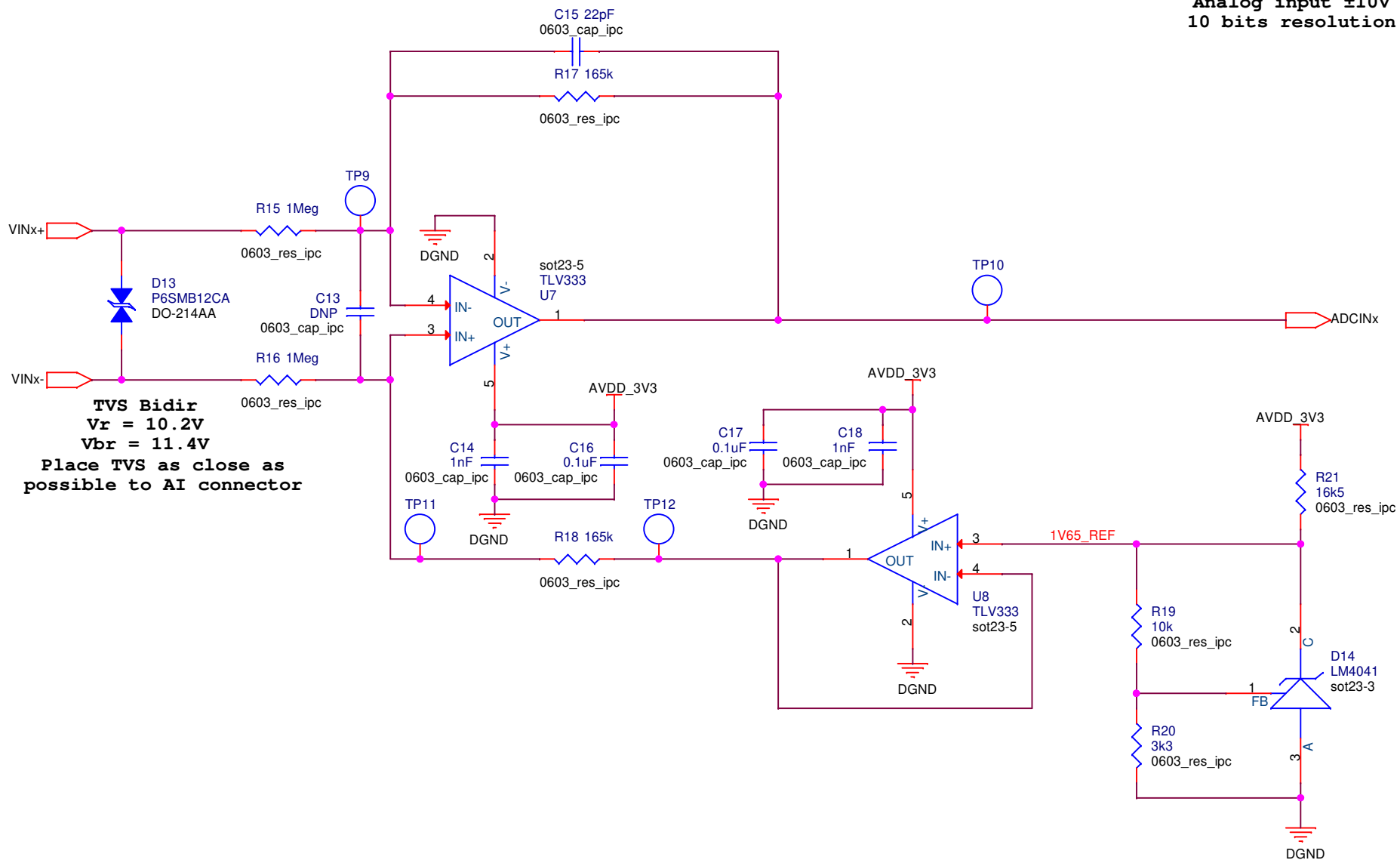


**TVS Bidir**  
**V<sub>r</sub> = 10.2V**  
**V<sub>br</sub> = 11.4V**  
**Place TVS as close as possible to AI connector**

-----  
**Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted**  
**Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted**

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title Analog input $\pm 10V$		
Size A	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 3 of 21

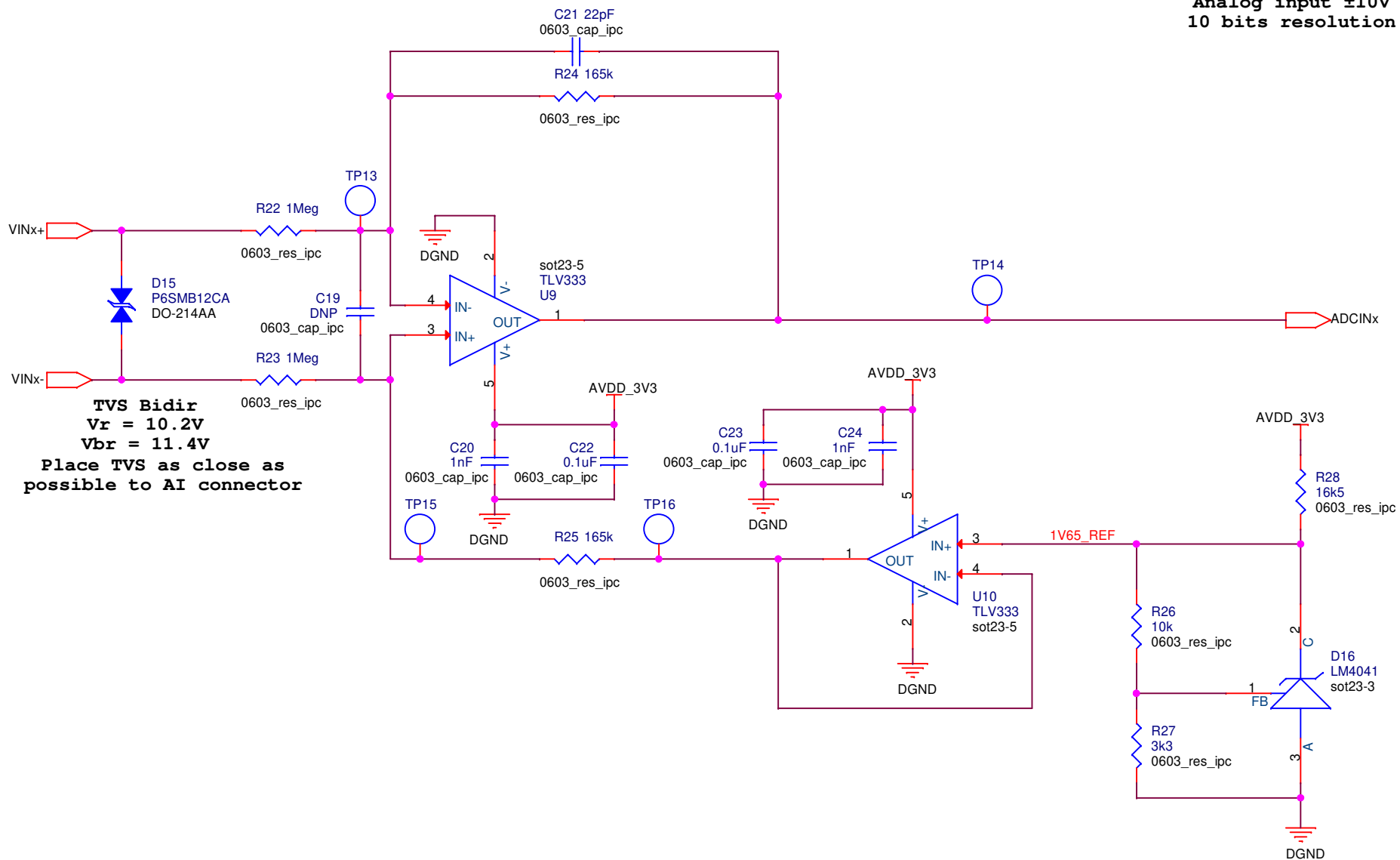
Analog input  $\pm 10V$   
10 bits resolution



-----  
Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title Analog input $\pm 10V$		
Size A	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 4 of 21

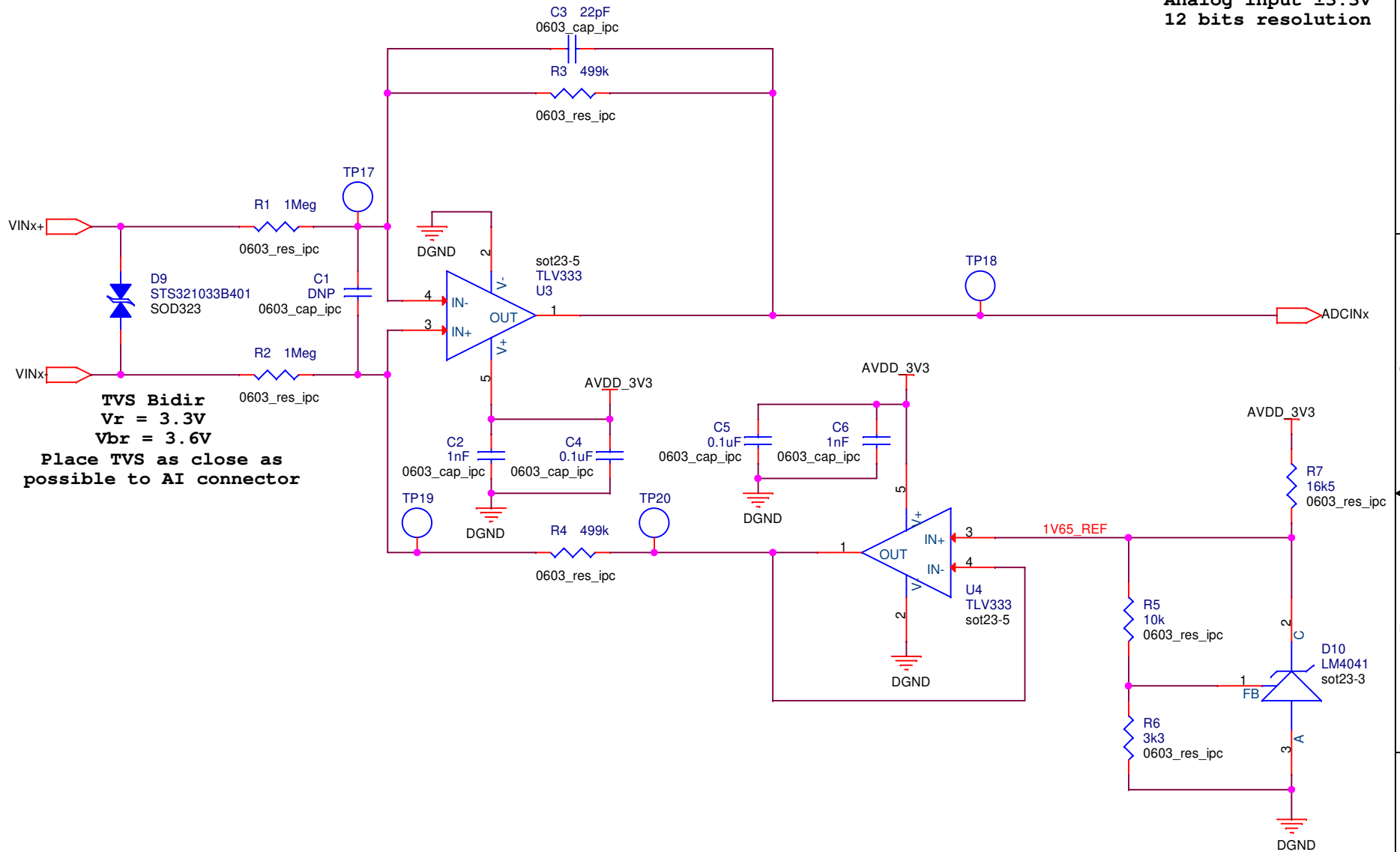
Analog input  $\pm 10V$   
10 bits resolution



Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted

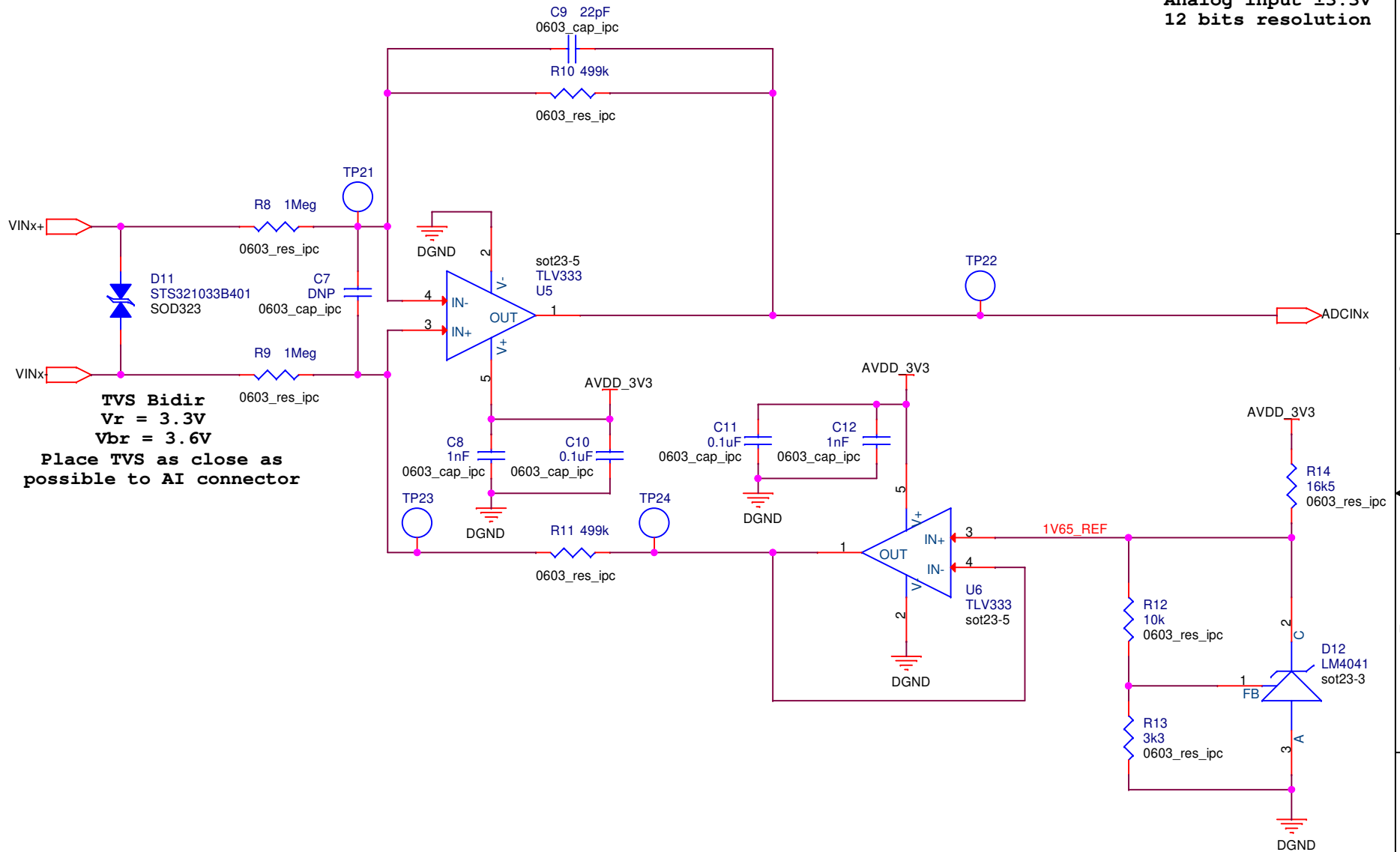
Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title Analog input $\pm 10V$		
Size A	Document Number <Doc>	Rev 0A
Date: Saturday, January 09, 2021	Sheet 5	of 21

Analog input  $\pm 3.3V$   
12 bits resolution



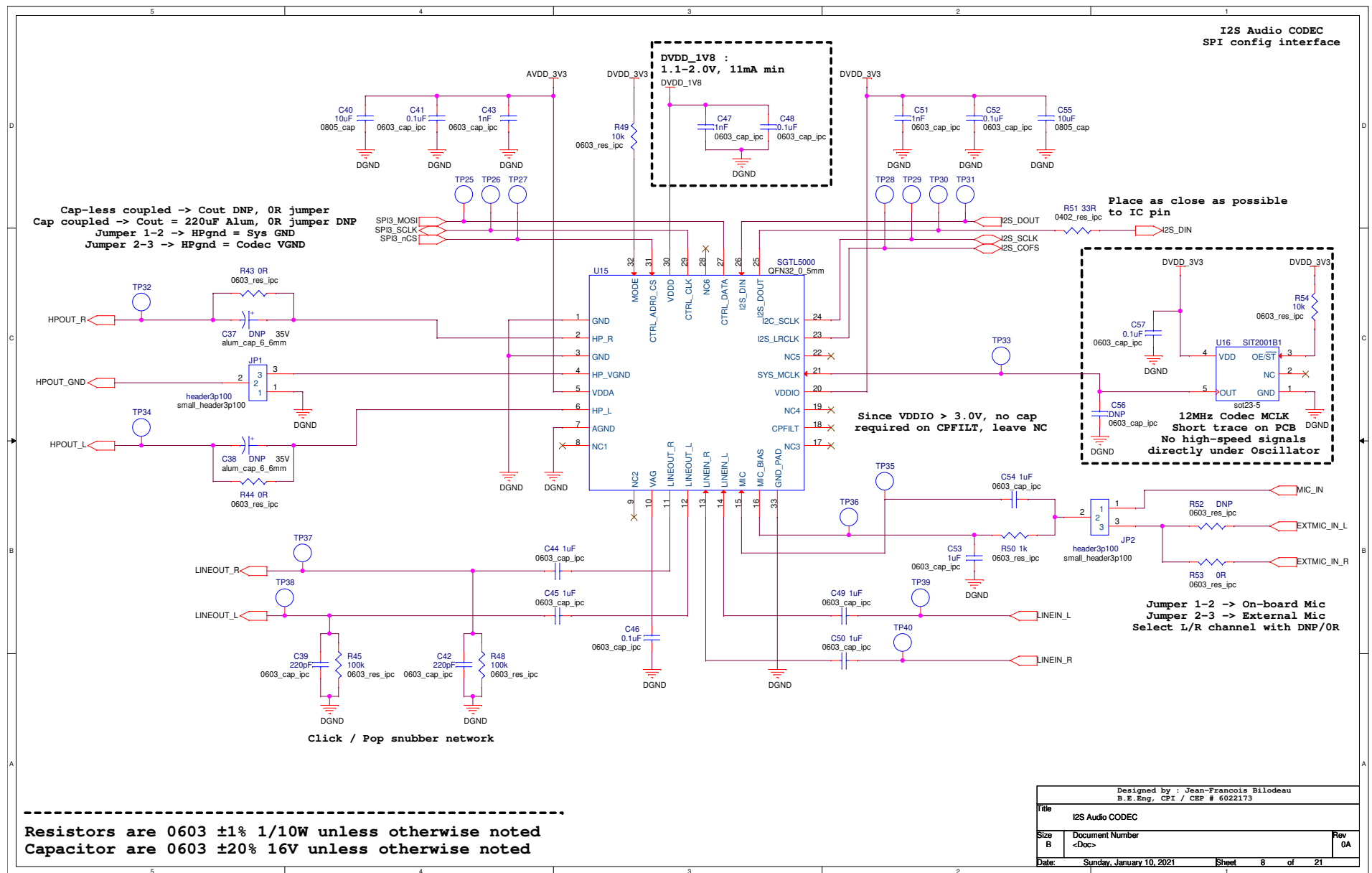
Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title Analog input $\pm 3V3$		
Size A	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 6 of 21

Analog input  $\pm 3.3V$   
12 bits resolution



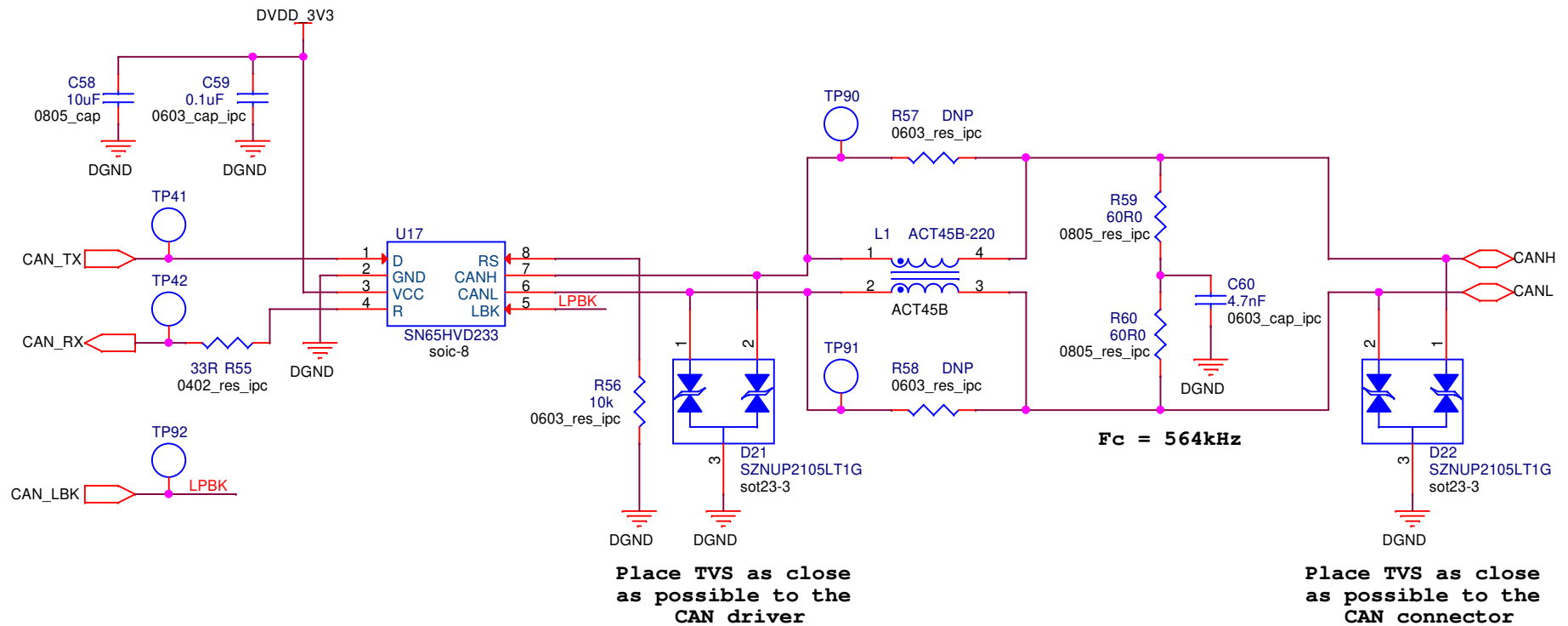
Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title Analog input $\pm 3V3$		
Size A	Document Number <Doc>	Rev 0A
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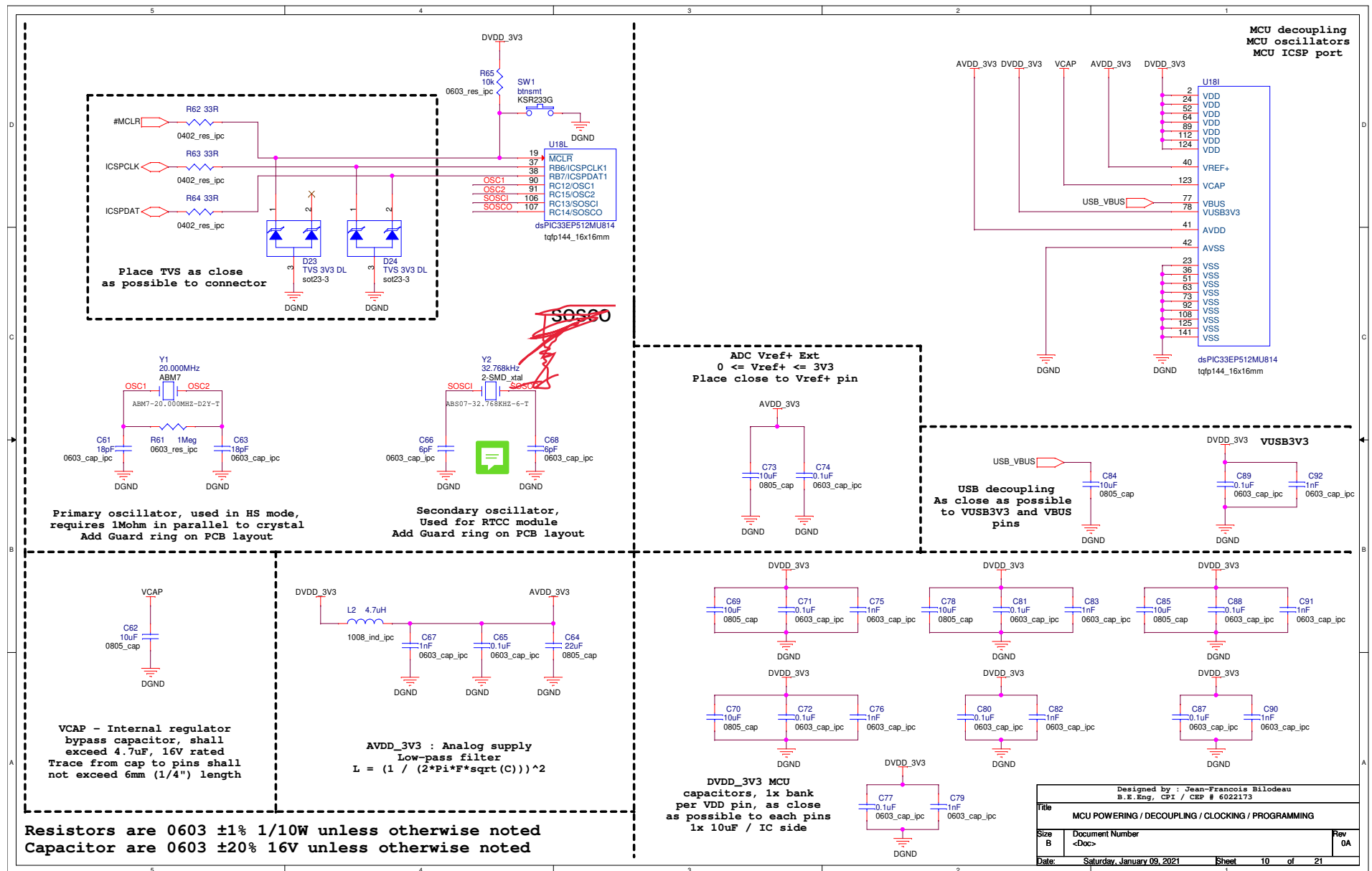


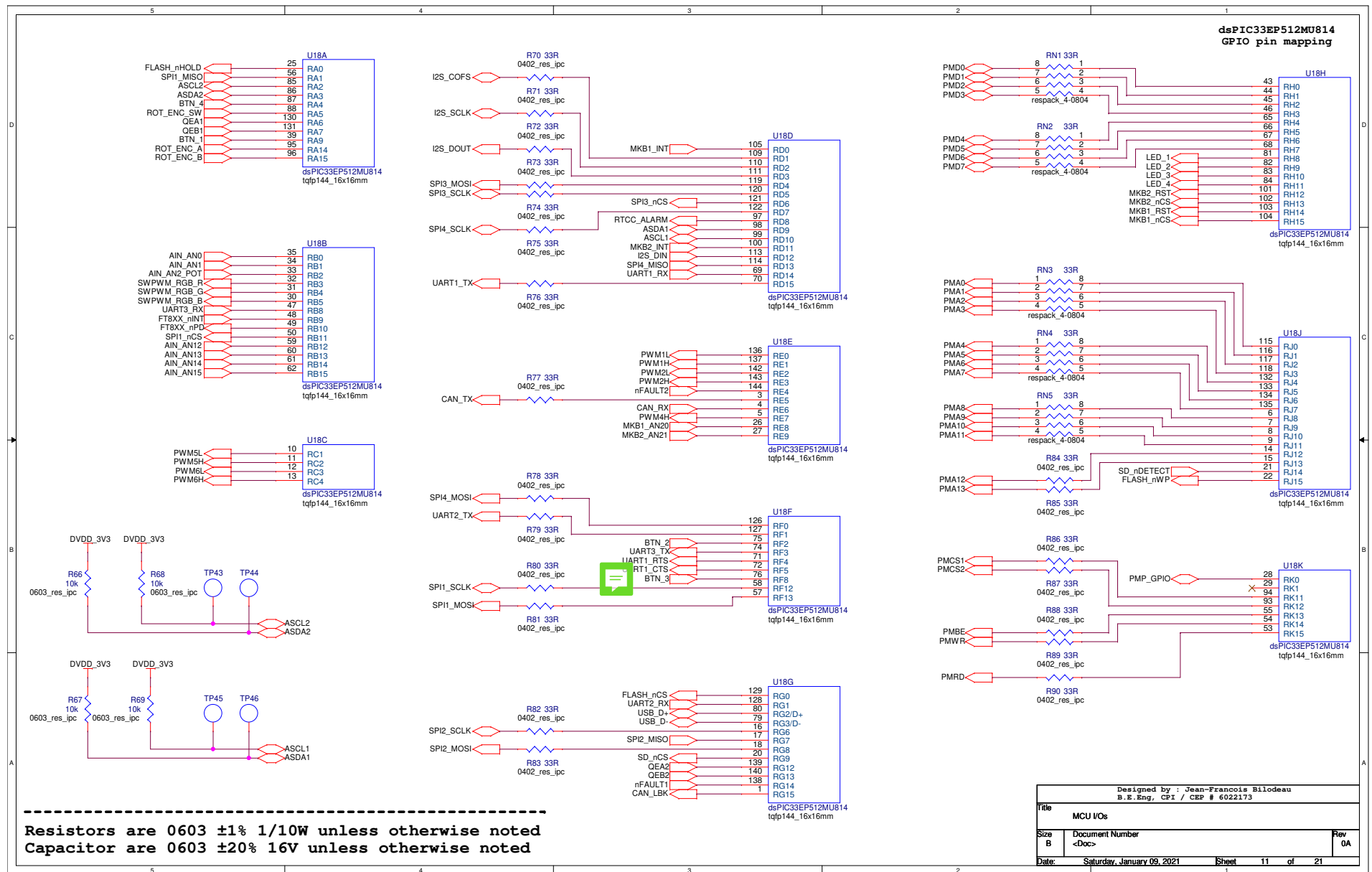
**CAN bus interface  
CAN 2.0B support  
Max bitrate 550kbps**

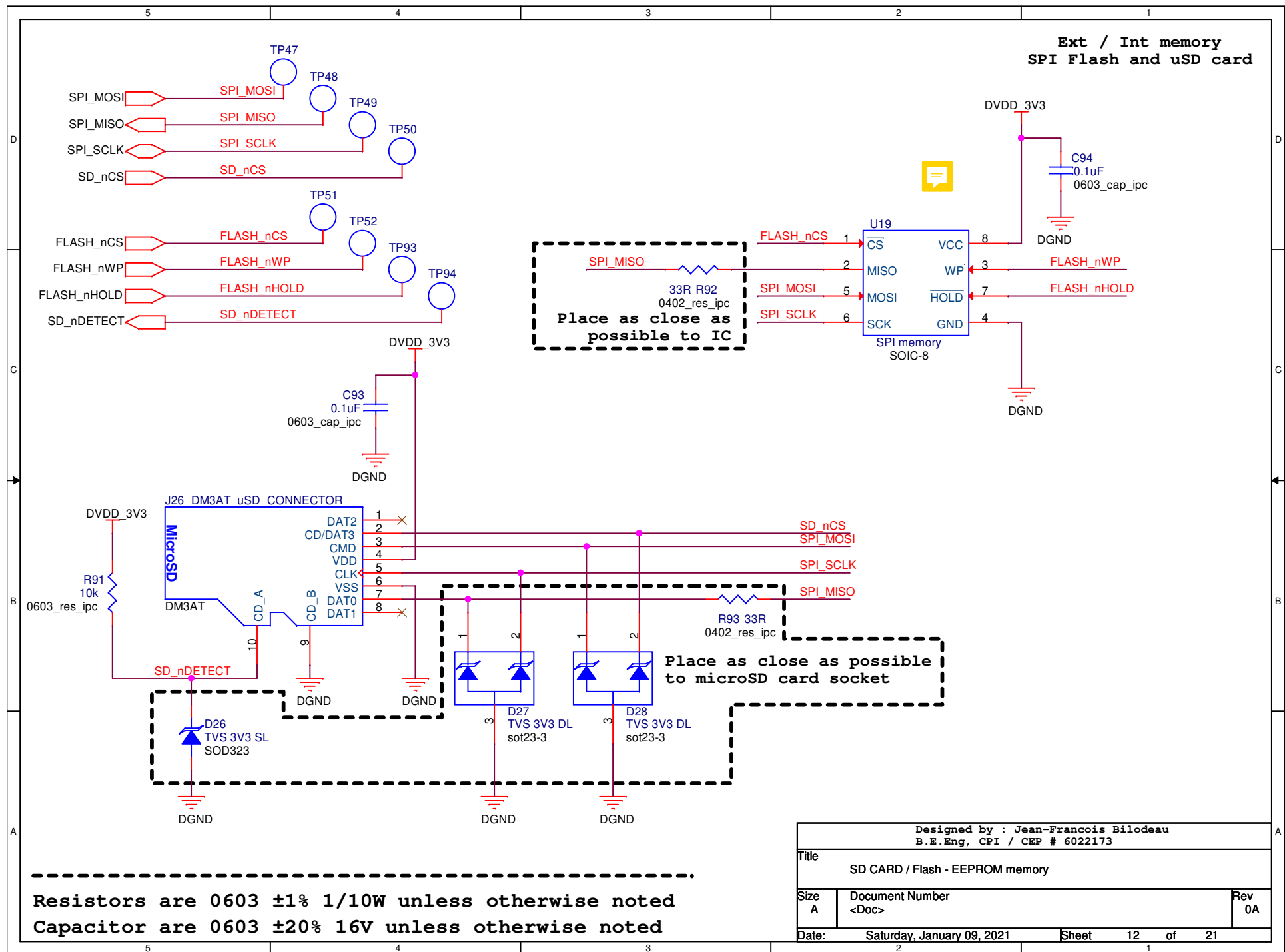


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Resistors are 0603 ±1% 1/10W unless otherwise noted  
Capacitor are 0603 ±20% 16V unless otherwise noted

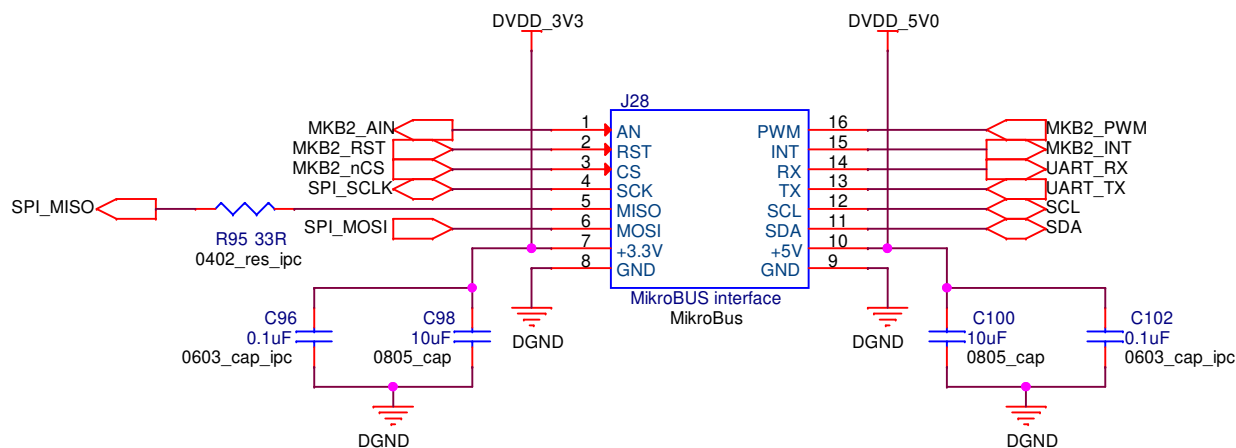
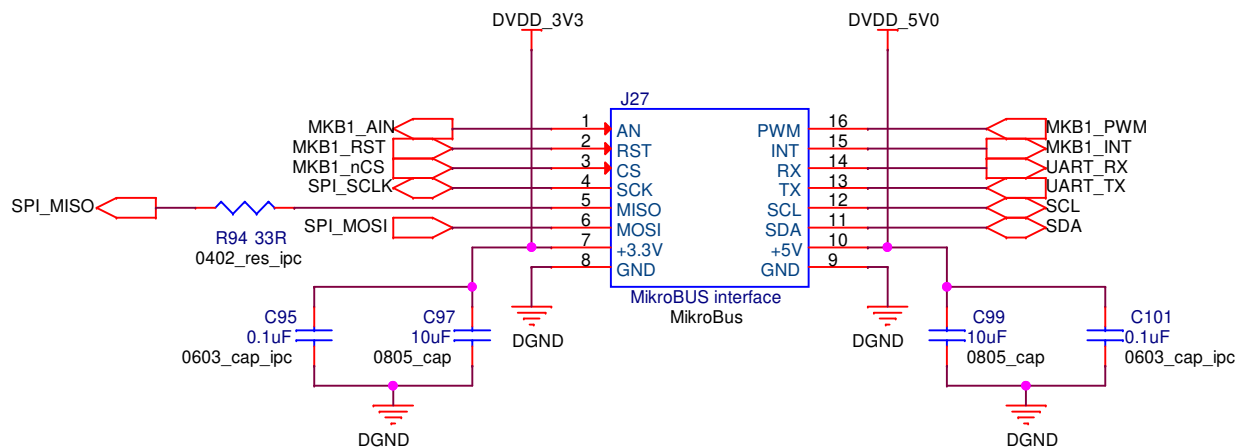
Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title CAN bus interface		
Size A	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 9 of 21







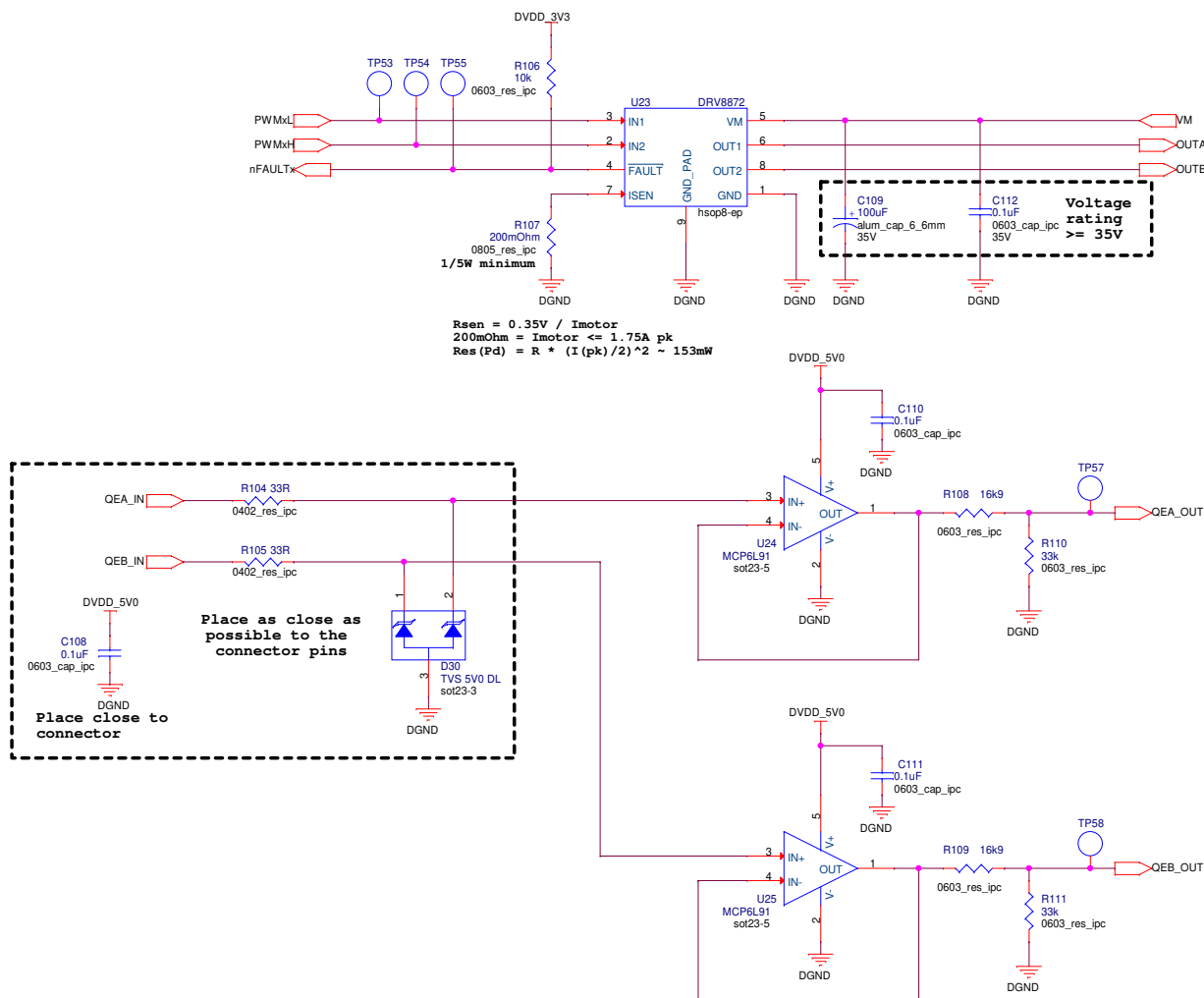
**MikroBus port**  
**Click Board compatible**  
**General purpose I/Os**



-----  
**Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted**  
**Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted**

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title MikroBUS interface		
Size A	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 13 of 21

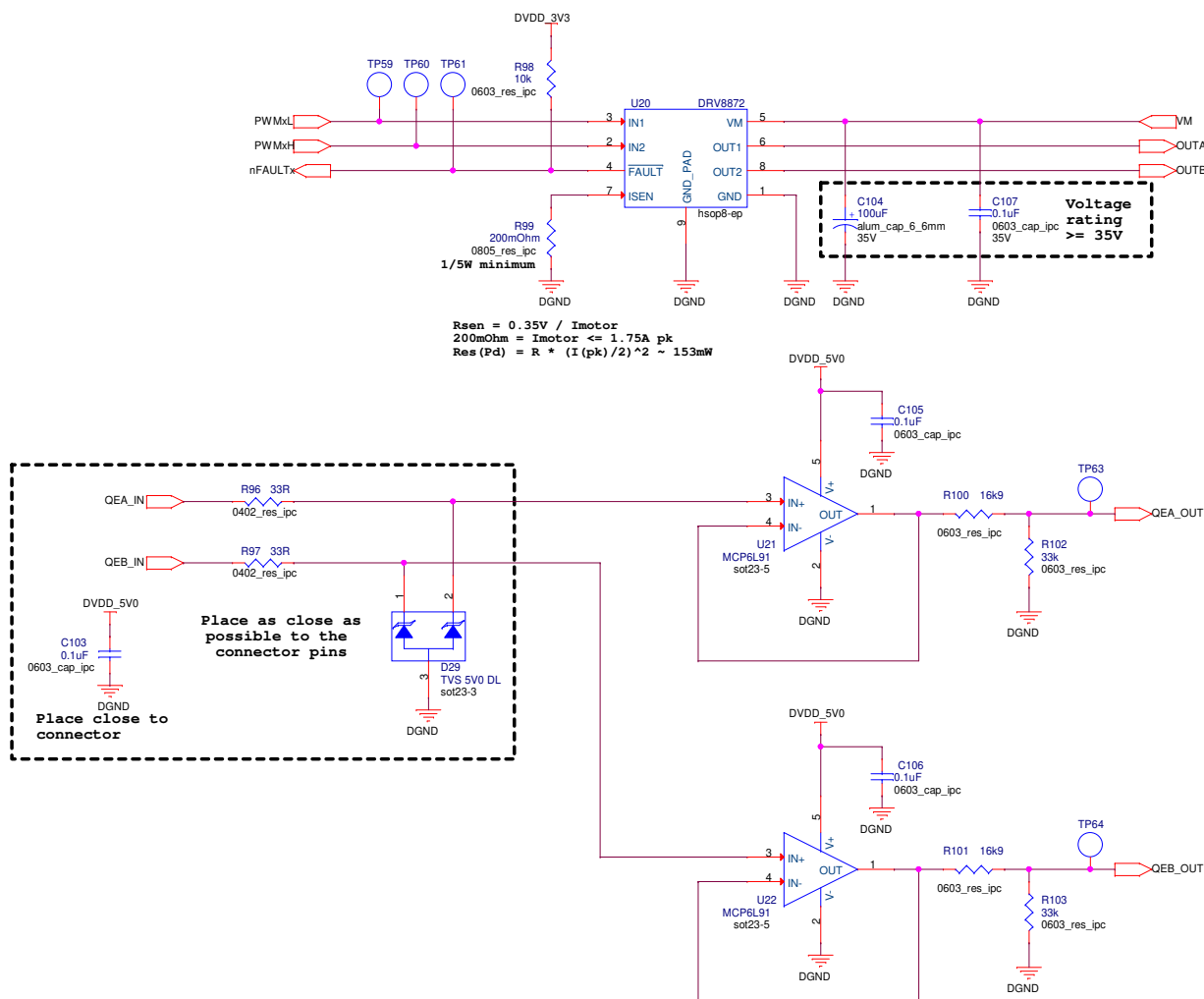
Brushed DC motor driver  
QEI encoder feedback



Resistors are 0603 ±1% 1/10W unless otherwise noted  
Capacitor are 0603 ±20% 16V unless otherwise noted

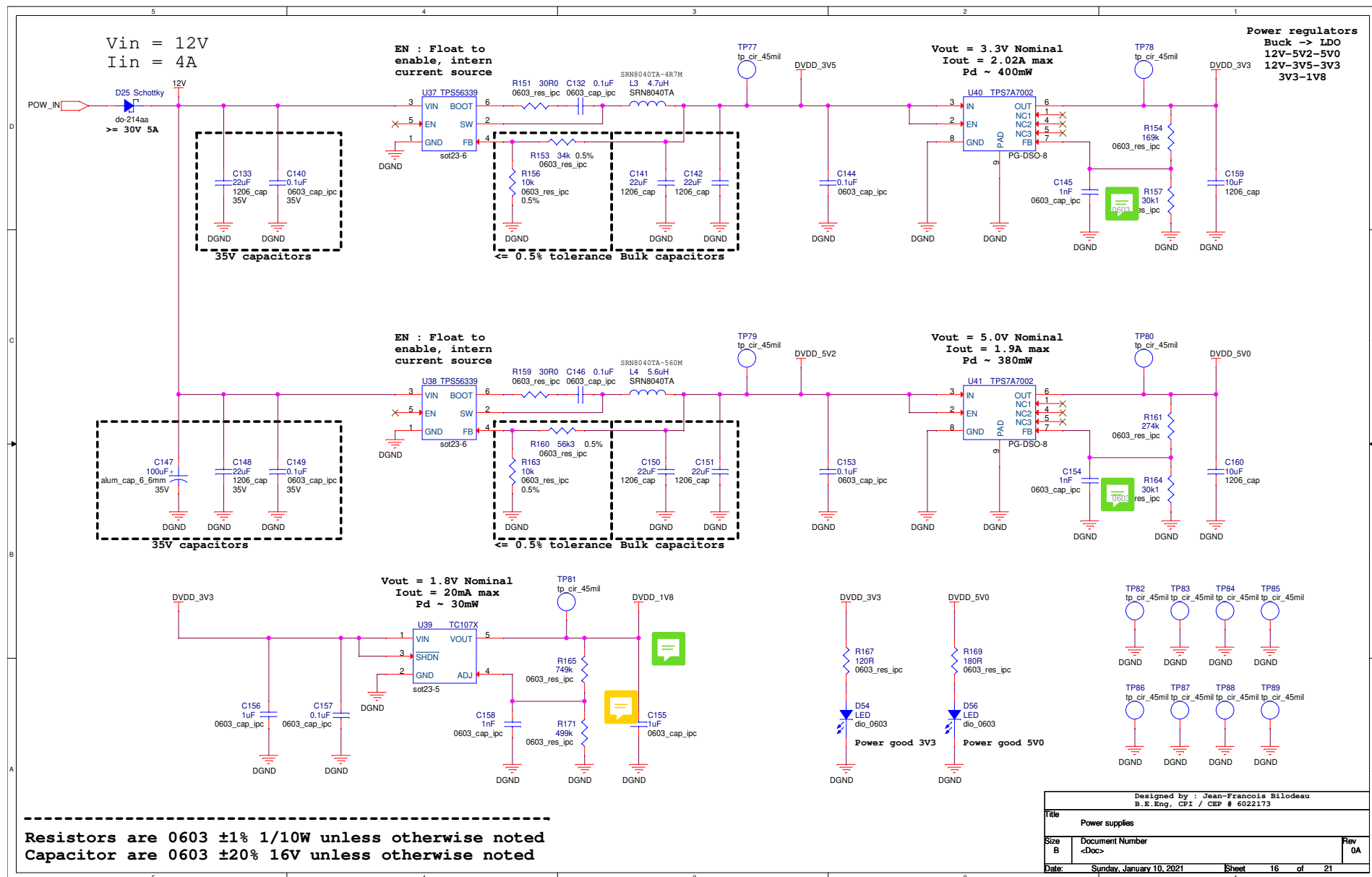
Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title H-Bridge motor driver with encoder feedback		
Size B	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 14 of 21

Brushed DC motor driver  
QEI encoder feedback



Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
 Capacitors are 0603  $\pm 20\%$  16V unless otherwise noted

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title H-Bridge motor driver with encoder feedback		
Size B	Document Number <Doc>	Rev 0A
Date: Saturday, January 09, 2021	Sheet 15	of 21



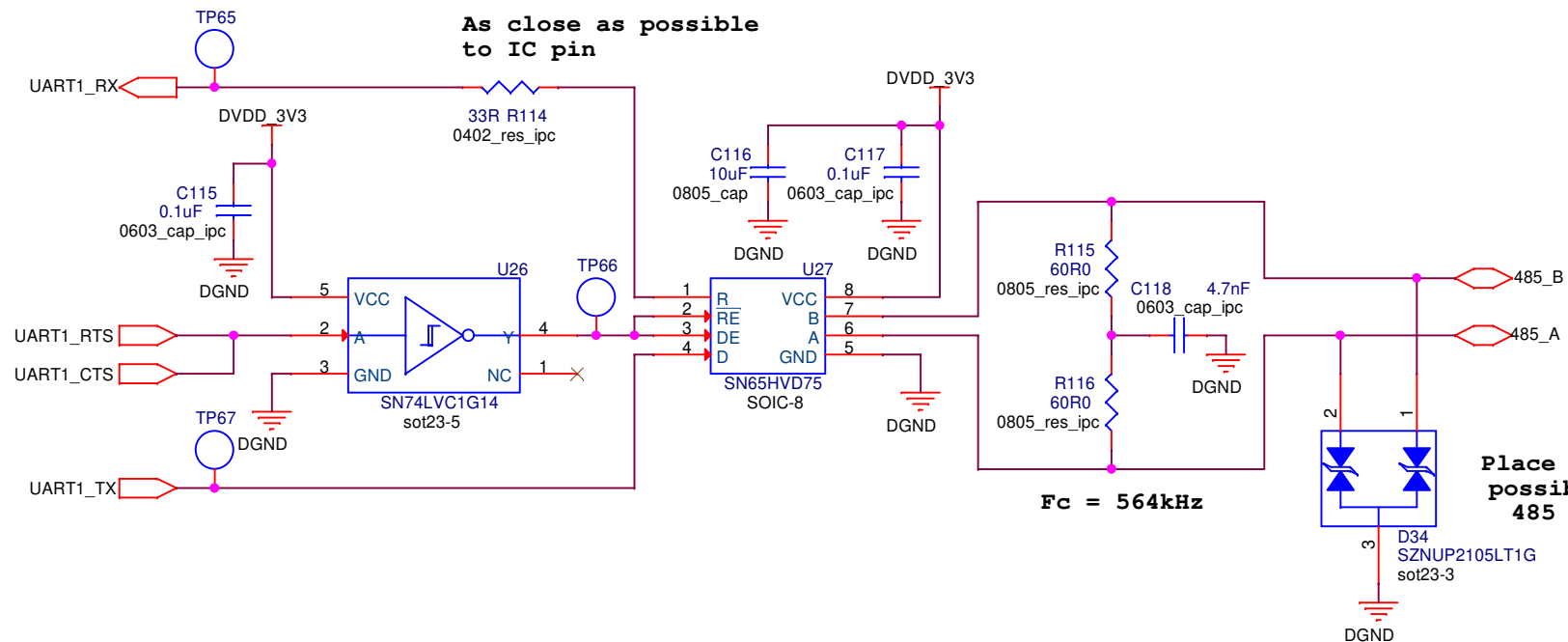


## A



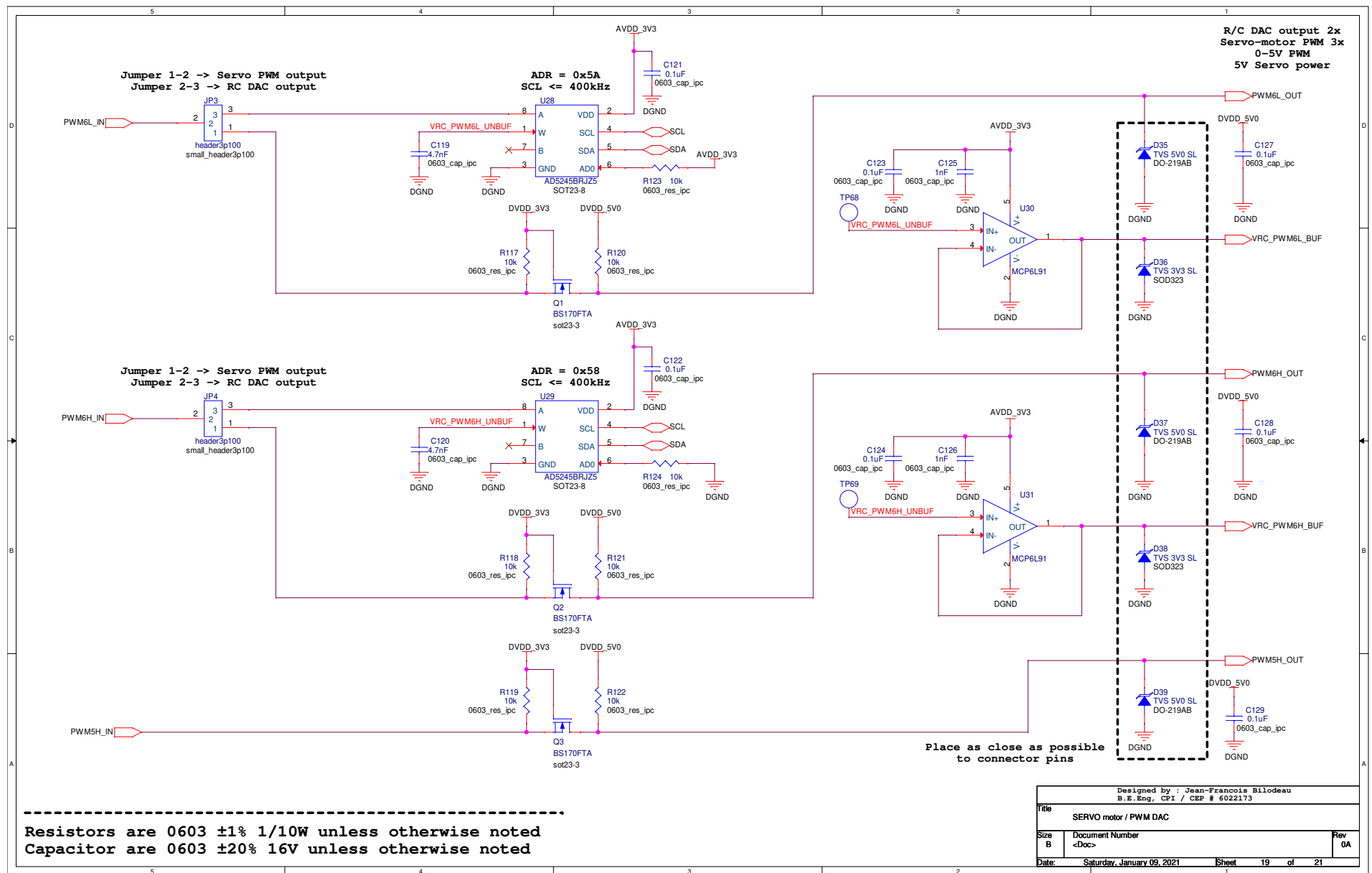
Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173			
Title Riverdi EVE LCD interface			
Size A	Document Number <Doc>		Rev 0A
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RS485 bus interface  
Max bitrate 550kbps

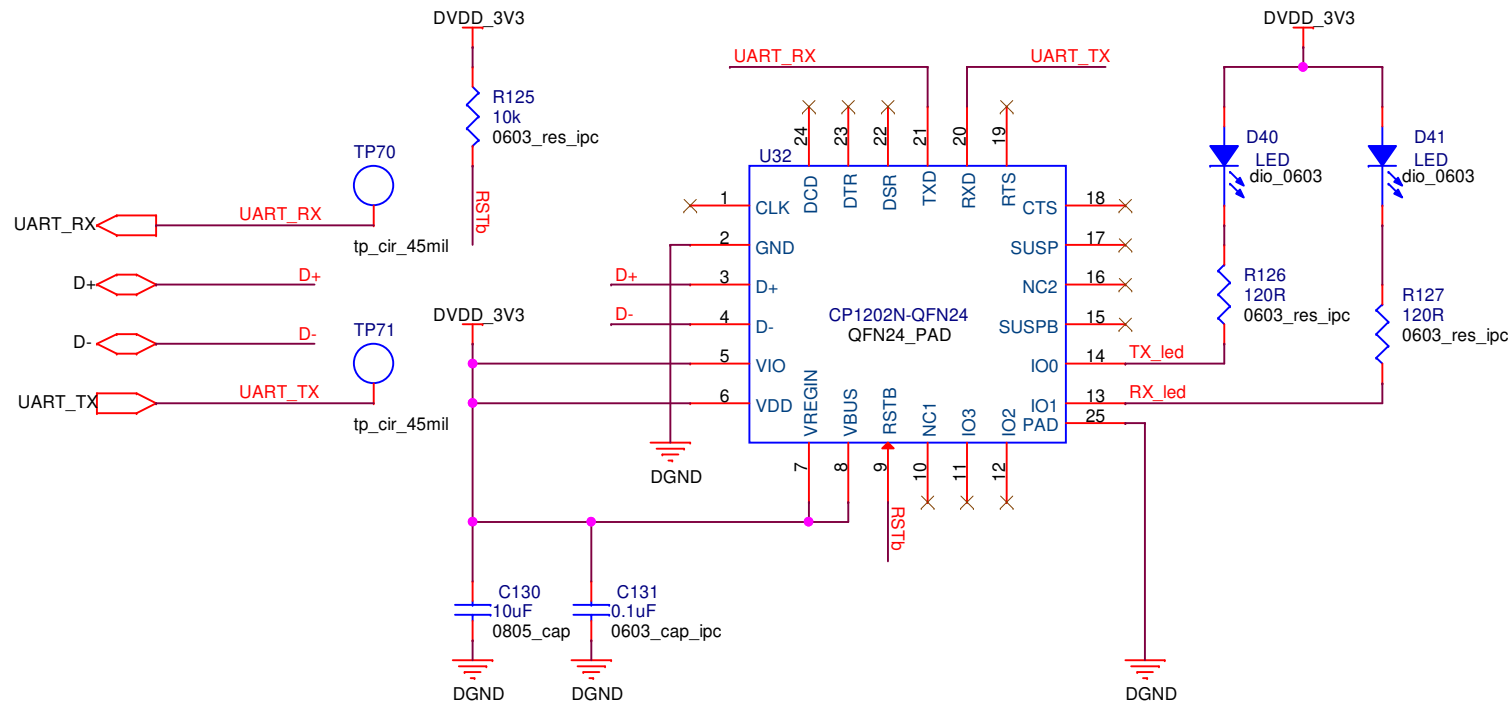


Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173			
Title RS485 bus interface			
Size A	Document Number <Doc>		Rev 0A
Date:	Saturday, January 09, 2021	Sheet	18 of 21



# USB-UART Converter SW debug interface



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Resistors are 0603  $\pm 1\%$  1/10W unless otherwise noted  
Capacitor are 0603  $\pm 20\%$  16V unless otherwise noted

Designed by : Jean-Francois Bilodeau B.E.Eng, CPI / CEP # 6022173		
Title USB-UART debug interface		
Size A	Document Number <Doc>	Rev 0A
Date:	Saturday, January 09, 2021	Sheet 20 of 21

