

Gear Display Board

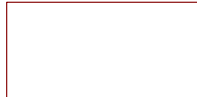
Block Diagram

Power Supply



File: psu.kicad_sch

Mechanical



File: mechanical.kicad_sch

Revision History



File: rev_history.kicad_sch

USB



File: usb.kicad_sch

Brightness Control

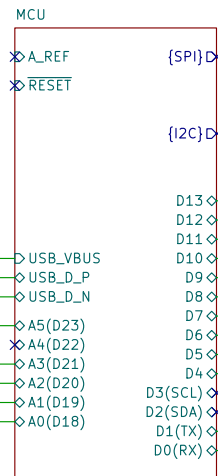


File: buttonui.kicad_sch

J1
1x04

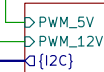


MCU:n signaalien kytkeminen
Tarkista että shift register on oikea malli, onko signaalit ok?



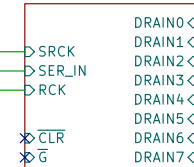
File: main.kicad_sch

Interfaces



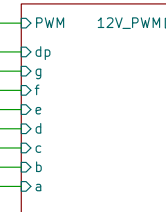
File: interfaces2.kicad_sch

LED Driver 3



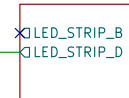
File: led_driver.kicad_sch

7-Segment Display



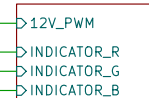
File: 7seg_display.kicad_sch

RPM Bar

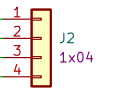


File: rpm_bar.kicad_sch

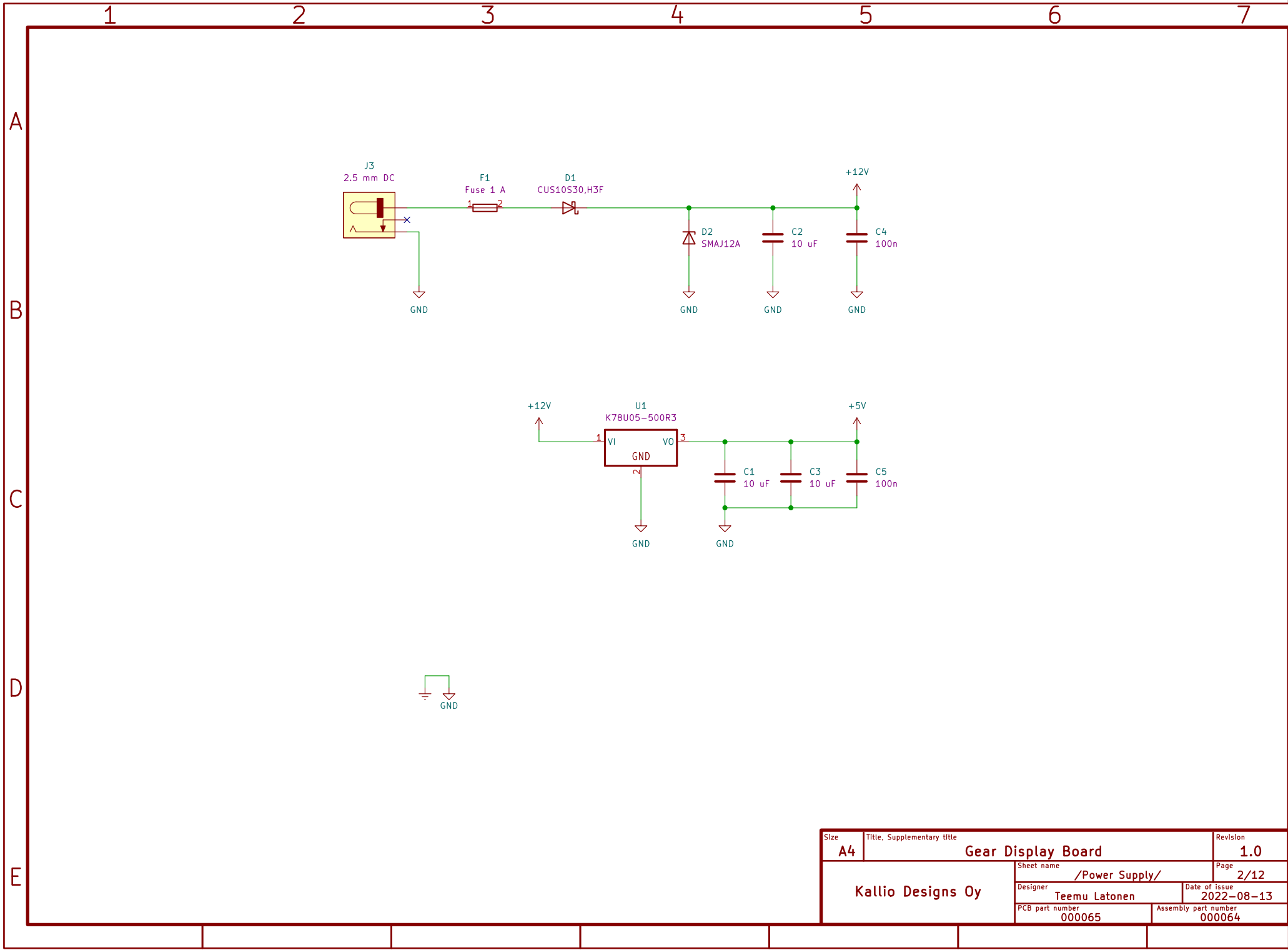
Shift Indicator



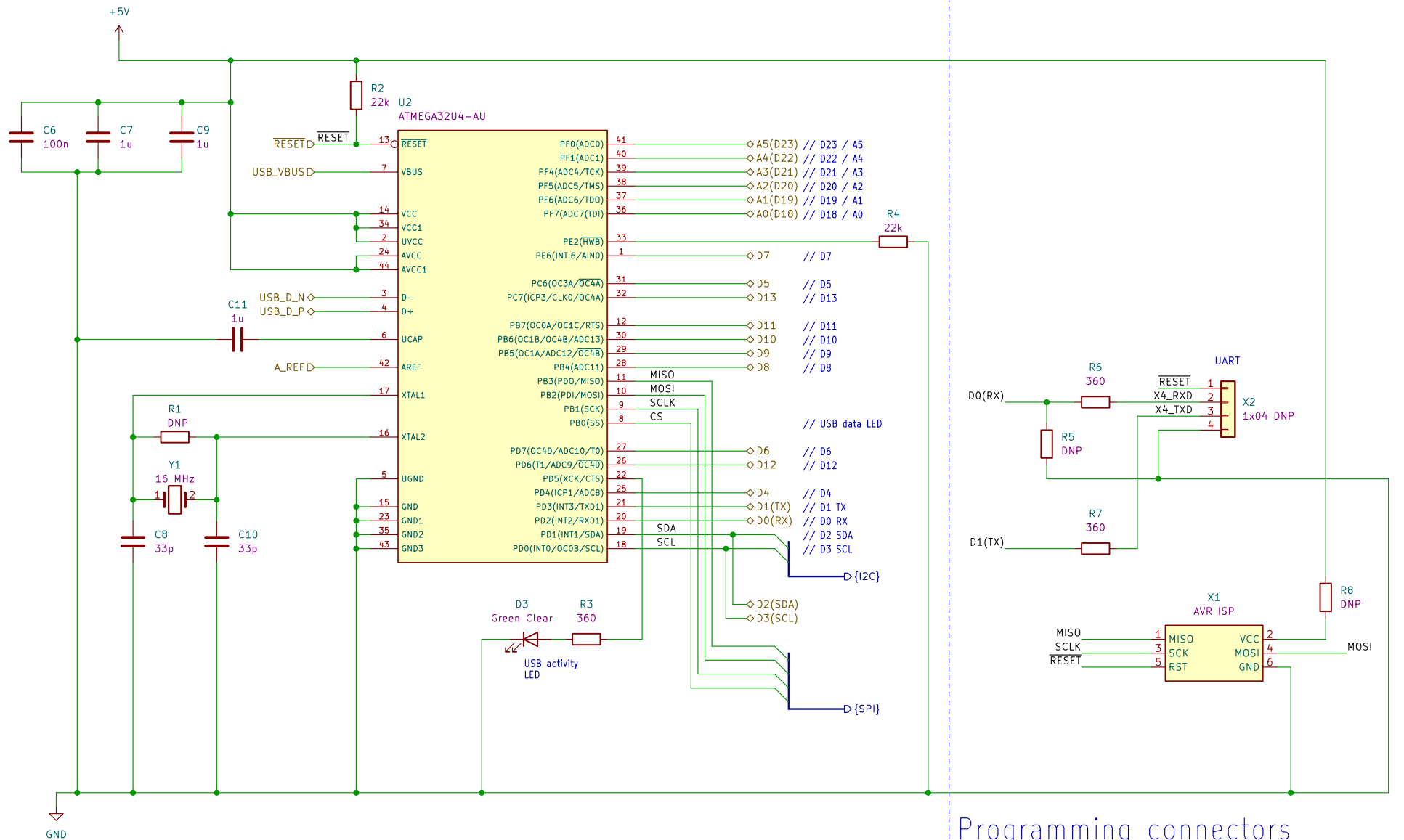
File: indicators.kicad_sch



Size	Title, Supplementary title		Revision
A4	Gear Display Board		1.0
Kallio Designs Oy		Sheet name	Page
		/	1/12
		Designer	Date of Issue
		Teemu Latonen	2022-08-13
PCB part number		Assembly part number	
000065		000064	

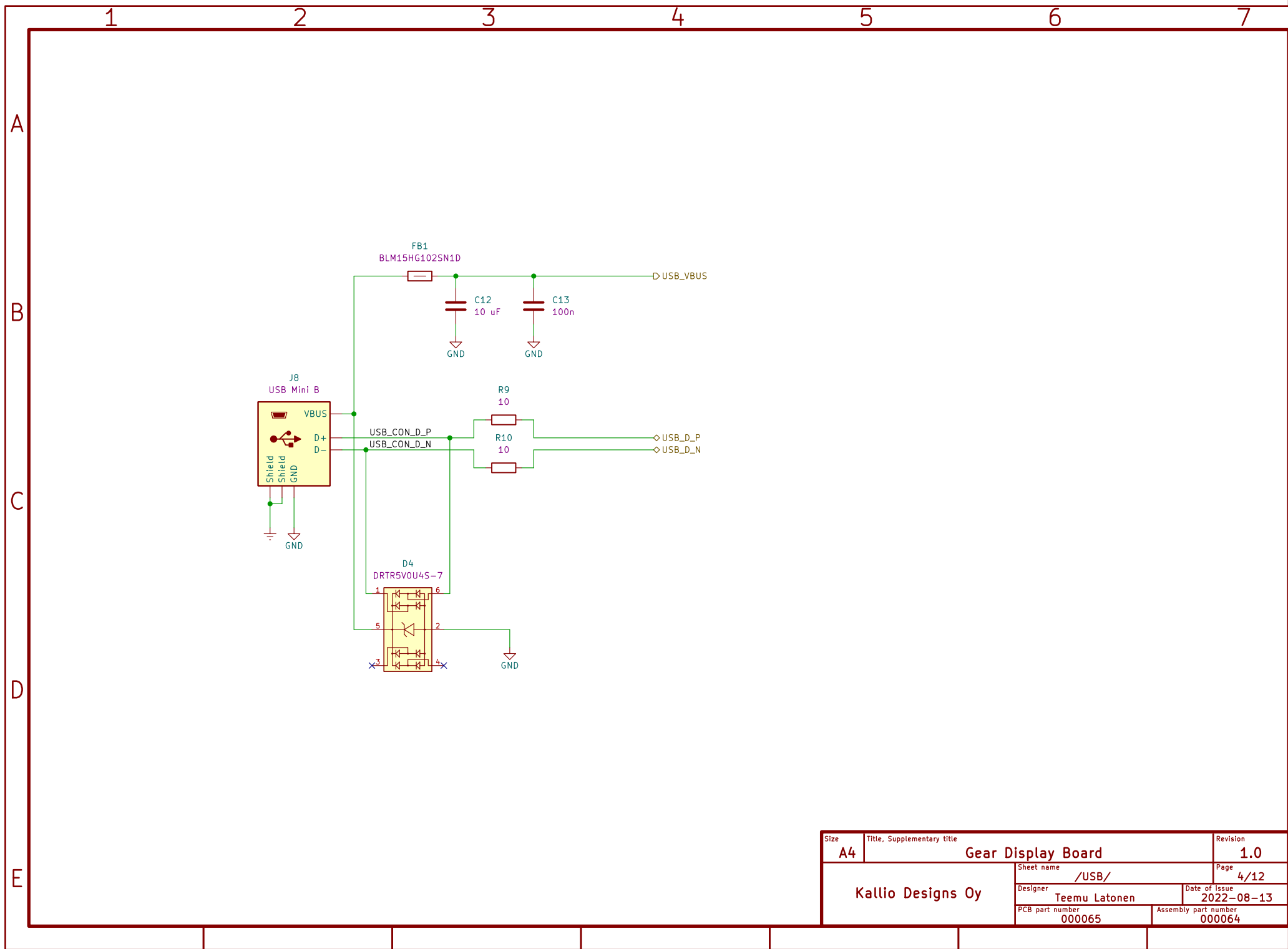


Size	Title, Supplementary title		Revision
A4	Gear Display Board		1.0
Kallio Designs Oy		Sheet name	Page
		/Power Supply/	2/12
		Designer	Date of issue
PCB part number		Assembly part number	
000065		000064	
Teemu Latonen		2022-08-13	

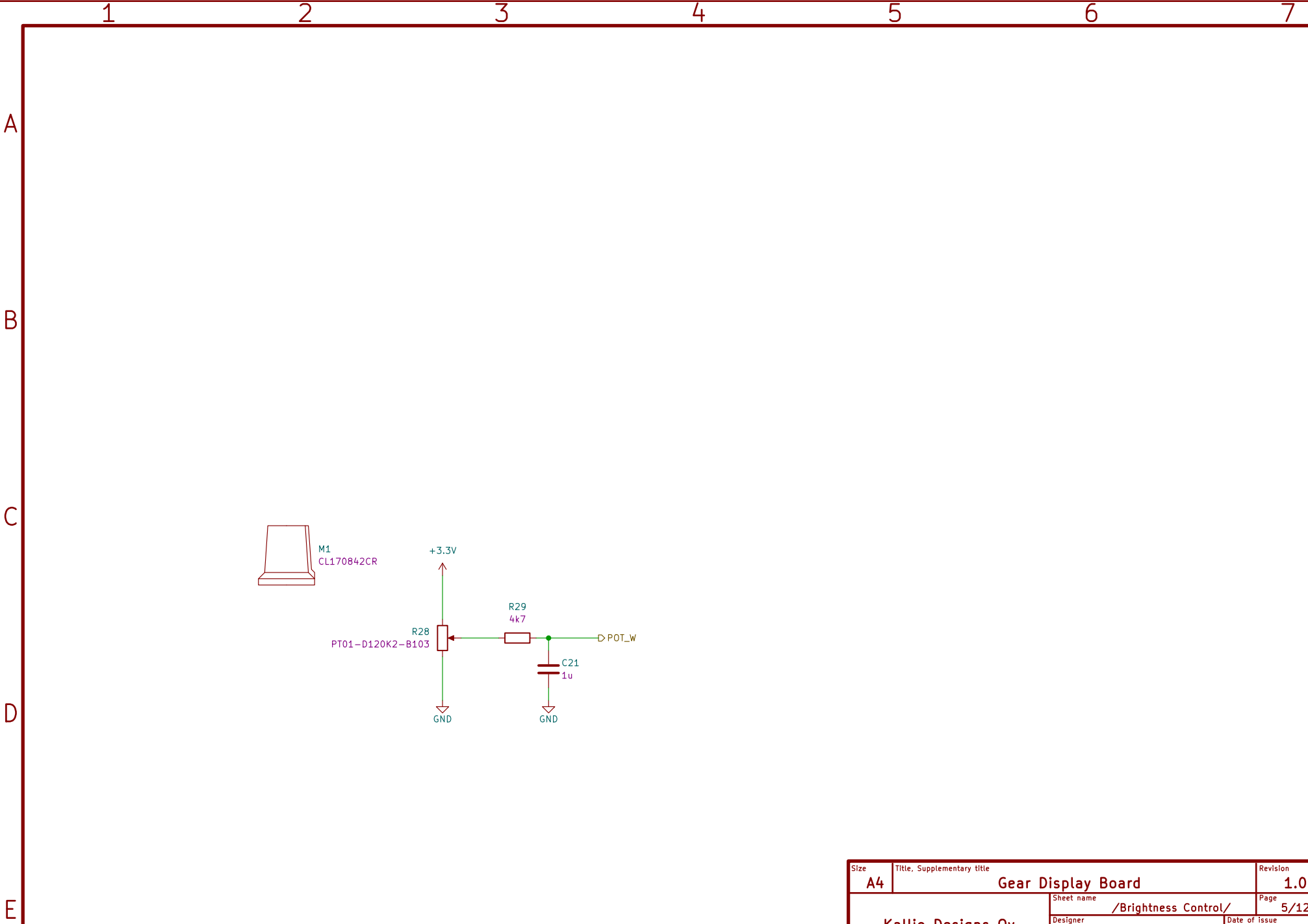


Programming connectors

Size	Title, Supplementary title		Revision
A4	Gear Display Board		1.0
Kallio Designs Oy		Sheet name	Page
		/MCU/	3/12
		Designer	Date of issue
		Teemu Latonen	2022-08-13
PCB part number		Assembly part number	
000065		000064	



Size	Title, Supplementary title		Revision	
			1.0	
A4	Gear Display Board		Page	
	/USB/		4/12	
	Designer		Date of issue	
	Teemu Latonen		2022-08-13	
PCB part number		Assembly part number		
000065		000064		



Size	Title, Supplementary title		Revision
	Gear Display Board		1.0
	Sheet name		Page
	/Brightness Control/		5/12
Kallio Designs Oy	Designer		Date of issue
	Teemu Latonen		2022-08-13
	PCB part number		Assembly part number
000065		000064	

1

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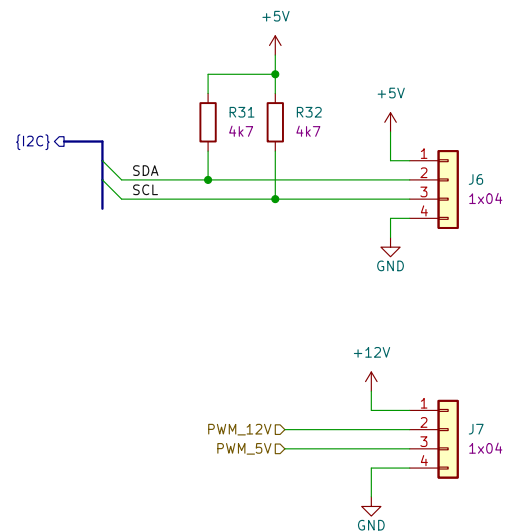
A

B

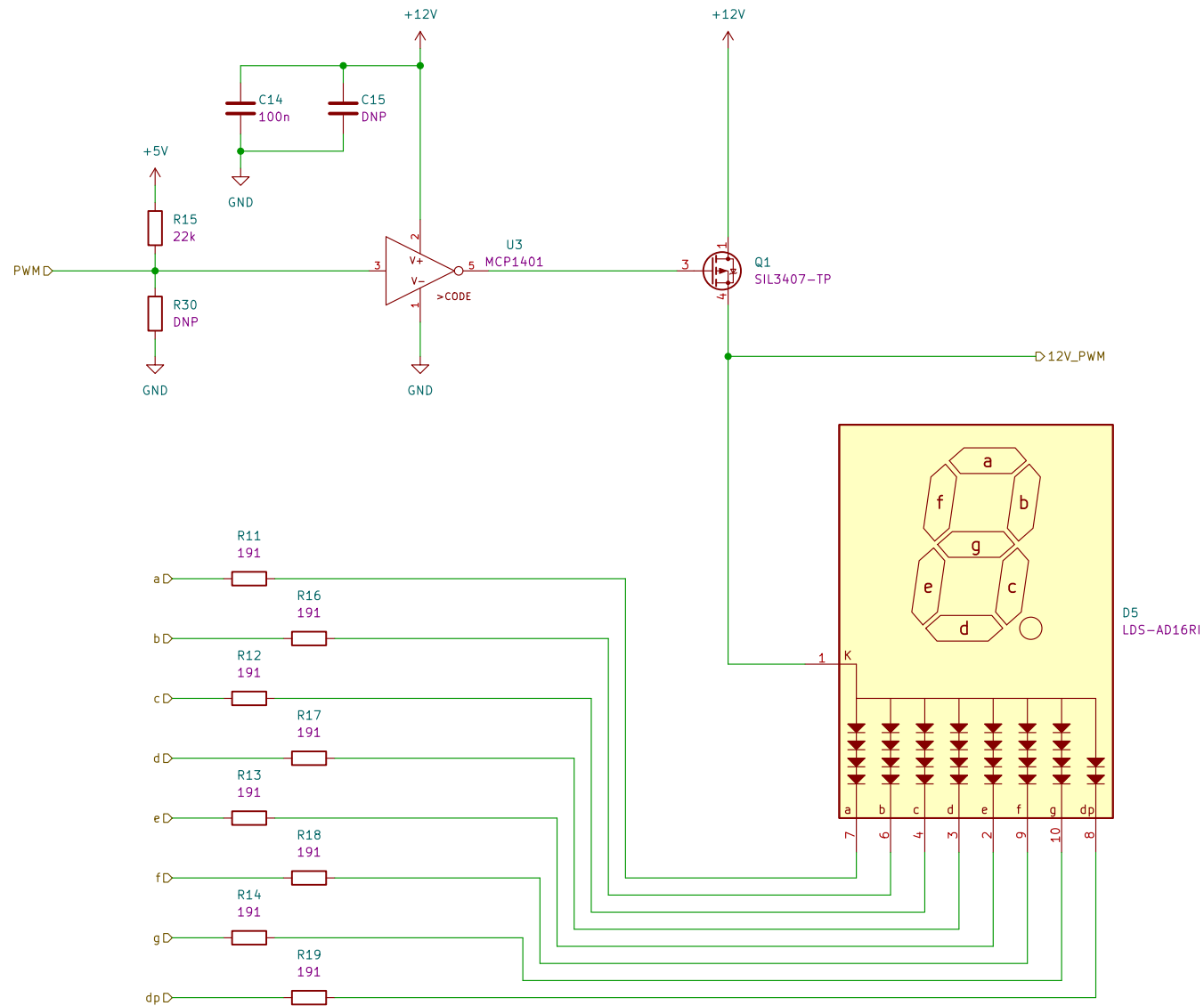
C

D

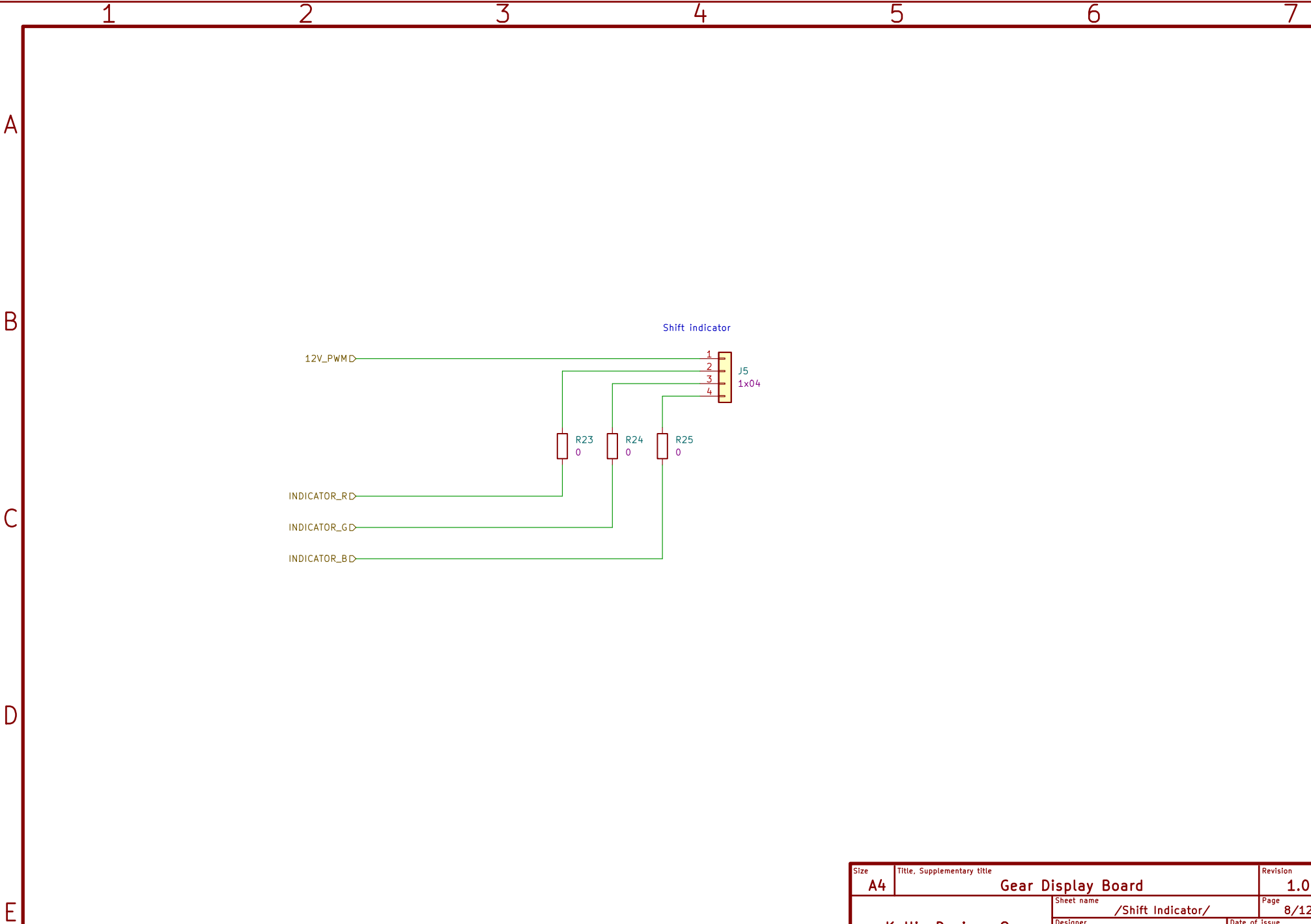
E



Size	Title, Supplementary title		Revision	
A4	Gear Display Board		1.0	
Kallio Designs Oy	Sheet name		Page	
	/Interfaces/		6/12	
	Designer		Date of issue	
	Teemu Latonen		2022-08-13	
PCB part number		Assembly part number		
000065		000064		



Size	Title, Supplementary title		Revision
A4	Gear Display Board		1.0
Kallio Designs Oy		Sheet name	Page
		/7-Segment Display/	7/12
		Designer	Date of issue
PCB part number		Assembly part number	
000065		000064	



Size	Title, Supplementary title		Revision
A4	Gear Display Board		1.0
Kallio Designs Oy		Sheet name	Page
		/Shift Indicator/	8/12
		Designer	Date of Issue
PCB part number		Assembly part number	
000065		000064	
Teemu Latonen		2022-08-13	

1

2

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4

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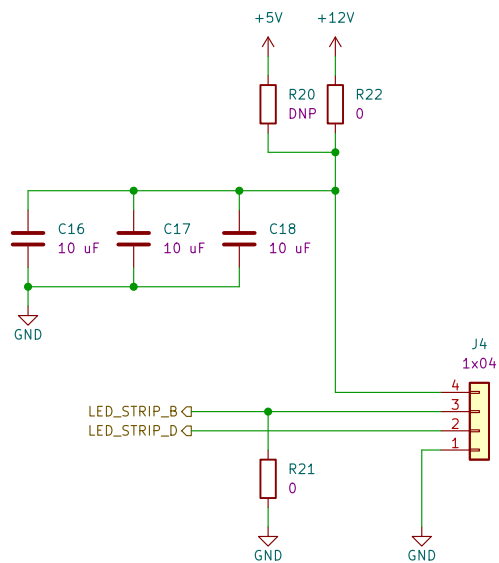
A

B

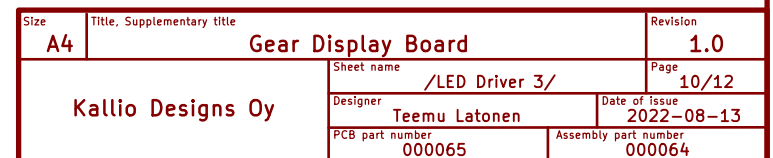
C

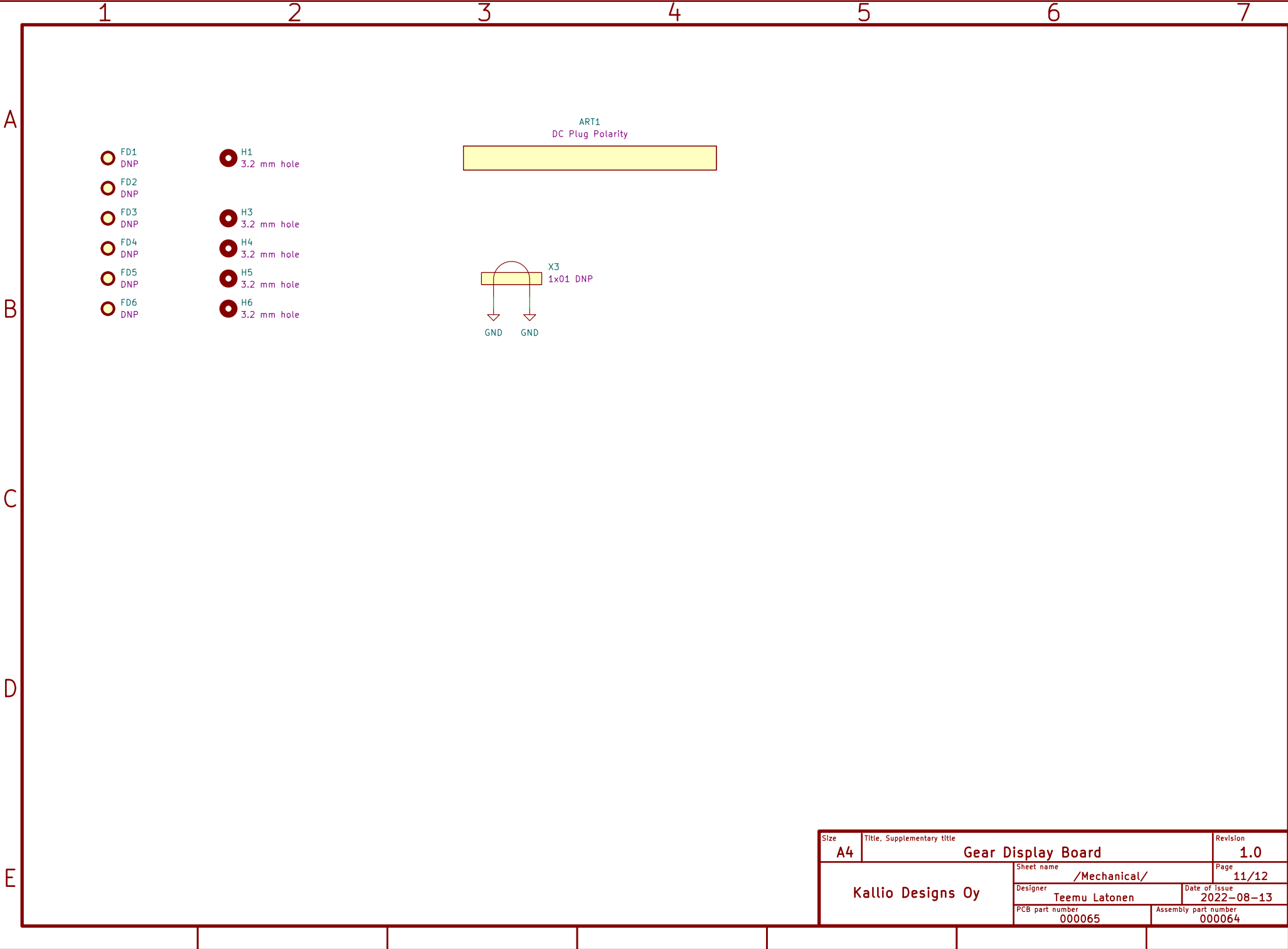
D

E



Size	Title, Supplementary title		Revision	
			1.0	
A4	Gear Display Board		Sheet name	
			/RPM Bar/	
			Page	
Kallio Designs Oy		Designer		Date of issue
		Teemu Latonen		2022-08-13
		PCB part number		Assembly part number
		000065		000064





Size	Title, Supplementary title		Revision
A4	Gear Display Board		1.0
Kallio Designs Oy		Sheet name	Page
		/Mechanical/	11/12
		Designer	Date of issue
		Teemu Latonen	2022-08-13
		PCB part number	Assembly part number
		000065	000064

	1	2	3	4	5	6	7
A							
B							
C							
D							
E							

REVISION HISTORY				
REV	DATE	DESCRIPTION	DESIGNER	
1.0	13.08.2022	Initial	Teemu Latonen	

Size	Title, Supplementary title			Revision
A4	Gear Display Board			1.0
Kallio Designs Oy		Sheet name	/Revision History/	Page
		Designer	Teemu Latonen	12/12
		Date of issue	2022-08-13	
		PCB part number	000065	Assembly part number
		000064		