

Pinning mirrored on mainboard (1->2, 10->9)

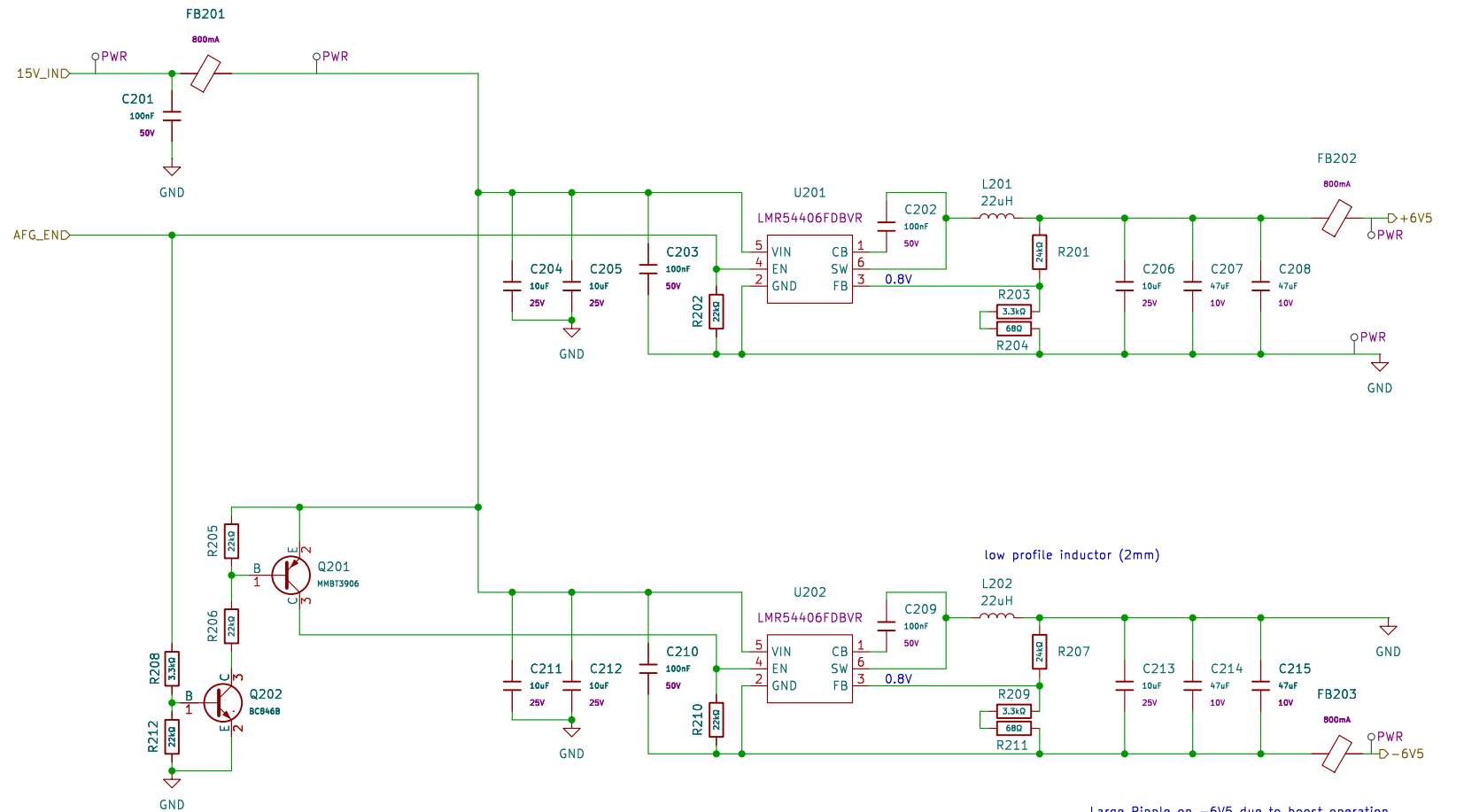
Pinning mirrored on mainboard (1->2, 40->39)

History

File: History.kicad_sch

M. Zimmermann	
Sheet: /	
File: AWG.kicad_sch	
Title: AWG for DH08/900	
Size: A4	Date: 2025-06-07
KiCad E.D.A. 9.0.1	Rev: V2
	Id: 1/6

Lagen: 4	Dicke: 1.6	Außen Kupfergewicht: 1	Innen Kupfergewicht: 0.0
No copper on top			
A.C041819H-2116A	A.C041819H-2116A	A.C041819H-2116A	A.C041819H-2116A
A.C041819H-2116A	A.C041819H-2116A	A.C041819H-2116A	A.C041819H-2116A
A.C041819H-2116A	A.C041819H-2116A	A.C041819H-2116A	A.C041819H-2116A
Bohrer:	Materialtyp:	Dicke:	
Top Layer:	Copper:	0.035mm	
Prepung:	702P1:	0.2104mm	
Inner Layer L2:	Copper:	0.0102mm	
Core:	Core:	1.580mm	
Inner Layer L3:	Copper:	0.0102mm	
Prepung:	702P1:	0.2104mm	
Bottom Layer:	Copper:	0.035mm	



Large Ripple on -6V5 due to boost operation
 -> large capacitance
 -> inductors on the input of every sensitive component

M. Zimmermann

Sheet: /PSUP/
 File: PSUP.kicad_sch

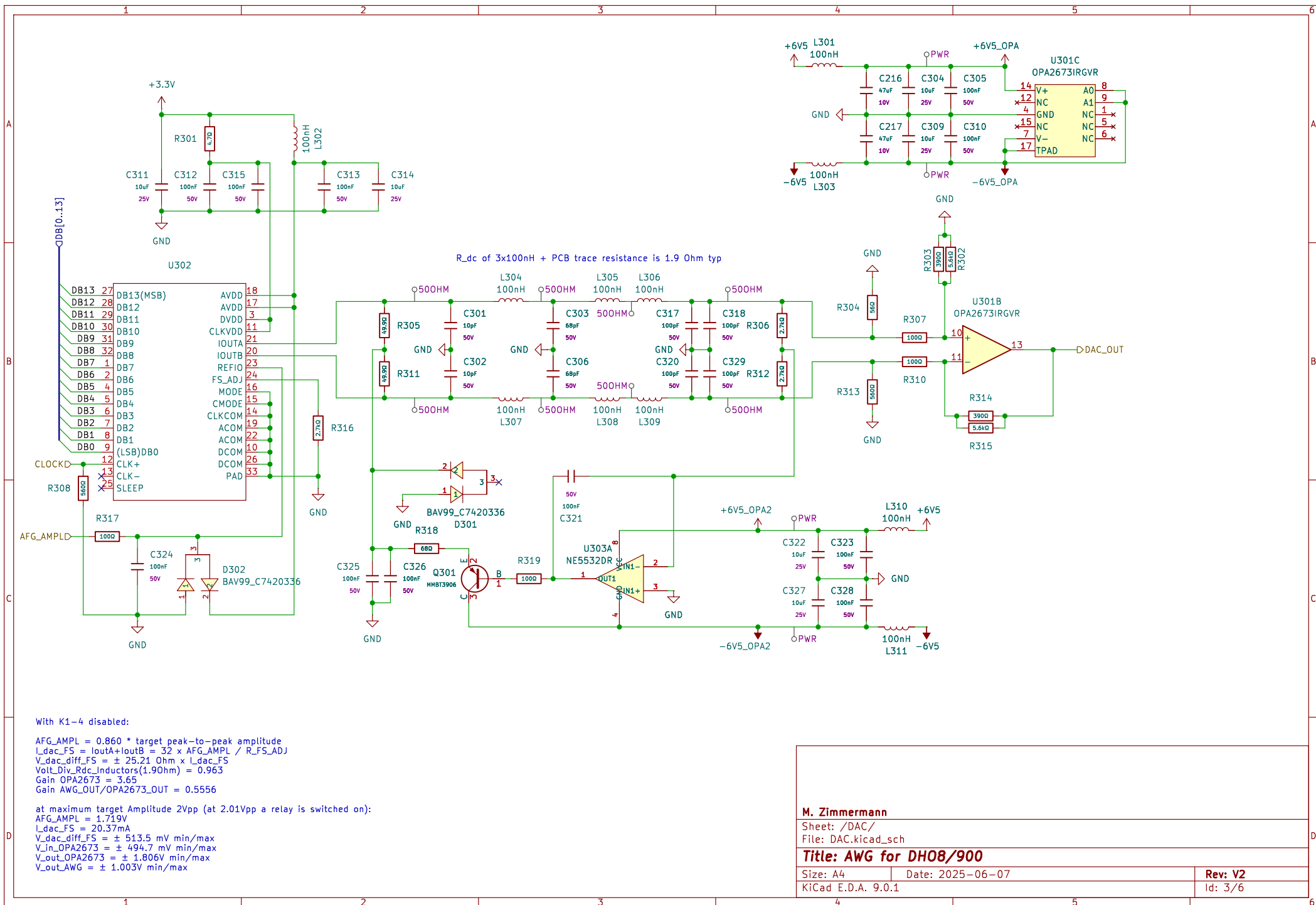
Title: AWG for DH08/900

Size: A4 Date: 2025-06-07

KiCad E.D.A. 9.0.1

Rev: V2

Id: 2/6



M. Zimmermann

Sheet: /DAC/

File: DAC.kicad_sch

Title: AWG for DH08/900

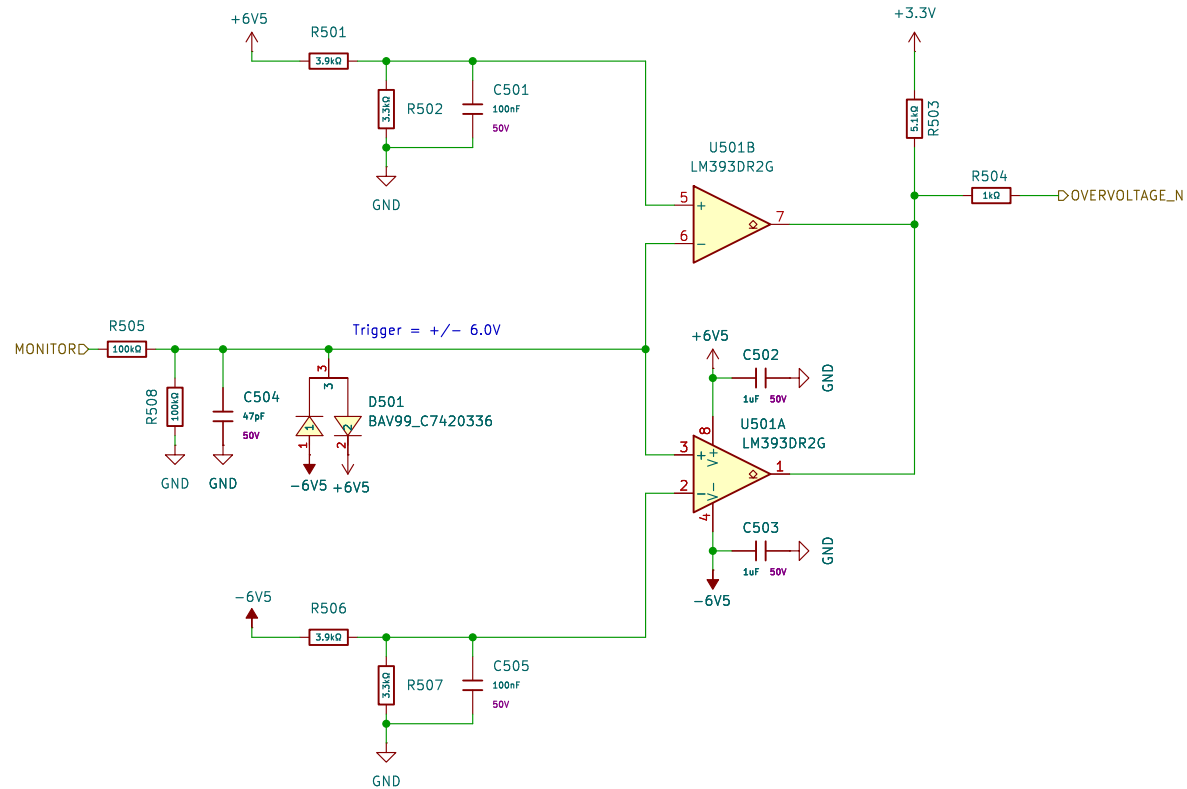
Size: A4

Date: 2025-06-07

KiCad E.D.A. 9.0.1

Rev: V2

Id: 3/6



M. Zimmermann

Sheet: /OvervoltageProtection/
File: OvervoltageProtection.kicad_sch

Title: AWG for DH08/900

Size: A4 Date: 2025-06-07

KiCad E.D.A. 9.0.1

Rev: V2

Id: 5/6

	1	2	3	4	5	6
A	<div>V1 – 17.05.2025 – M. Zimmermann: Initial release</div> <div>V2 – 07.06.2025 – M. Zimmermann: Fixes after measurements: 1. Changed R306, R212 from 100kOhm to 2.7kOhm. – Amplitude dependent Offset–Bug, caused by NE5532 Bias current. – Improved gain accuracy, also adapted documented calculation 2. Mechanical improvements – BNC connector moved by 0.5mm to the left and turned by 45° – moved traces too close to mounting screw (however, still not perfect) – reduced the board size close to the heatsink by 0.6mm</div>					A
B						B
C						C
D	<div>M. Zimmermann</div> <div>Sheet: /History/ File: History.kicad_sch</div> <div>Title: AWG for DH08/900</div> <div>Size: A4Date: 2025–06–07</div> <div>KiCad E.D.A. 9.0.1Rev: V2Id: 6/6</div>					D
	1	2	3	4	5	6