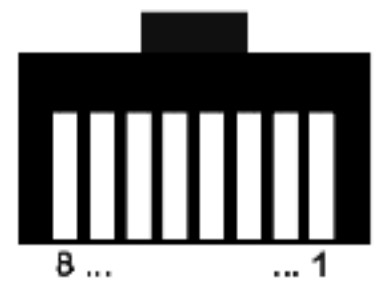


- Anm.:
- Ausgangssignale sind auf $V_{REF} = 2,5V$ bezogen
 - Vorsicht: V_{REF} nicht auf GND kurzschliessen
 - V_{REF} liegt an Schraubblöchern an für evtl. Schirmung

RJ45 Sicht auf Buchse

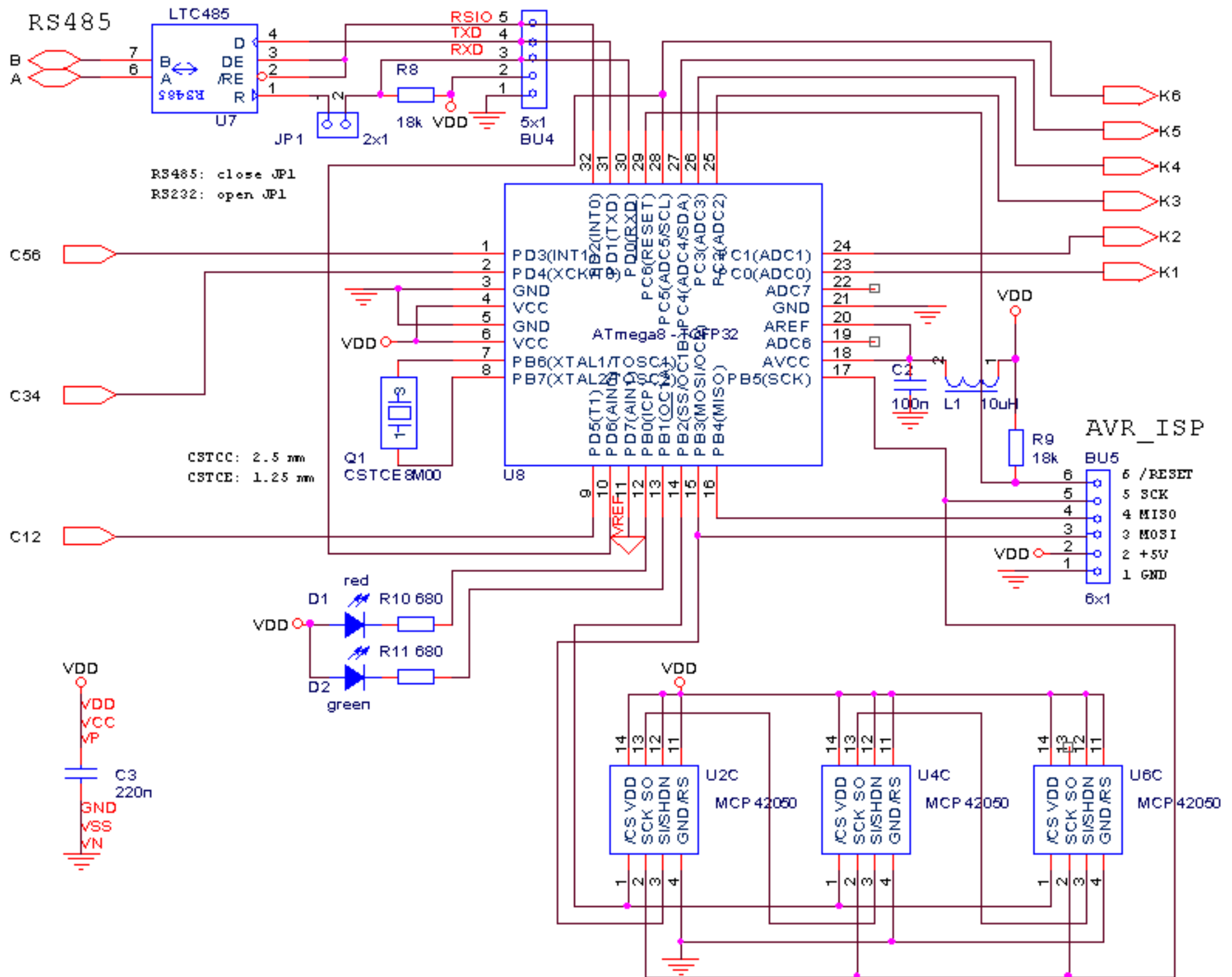


LAYERS:

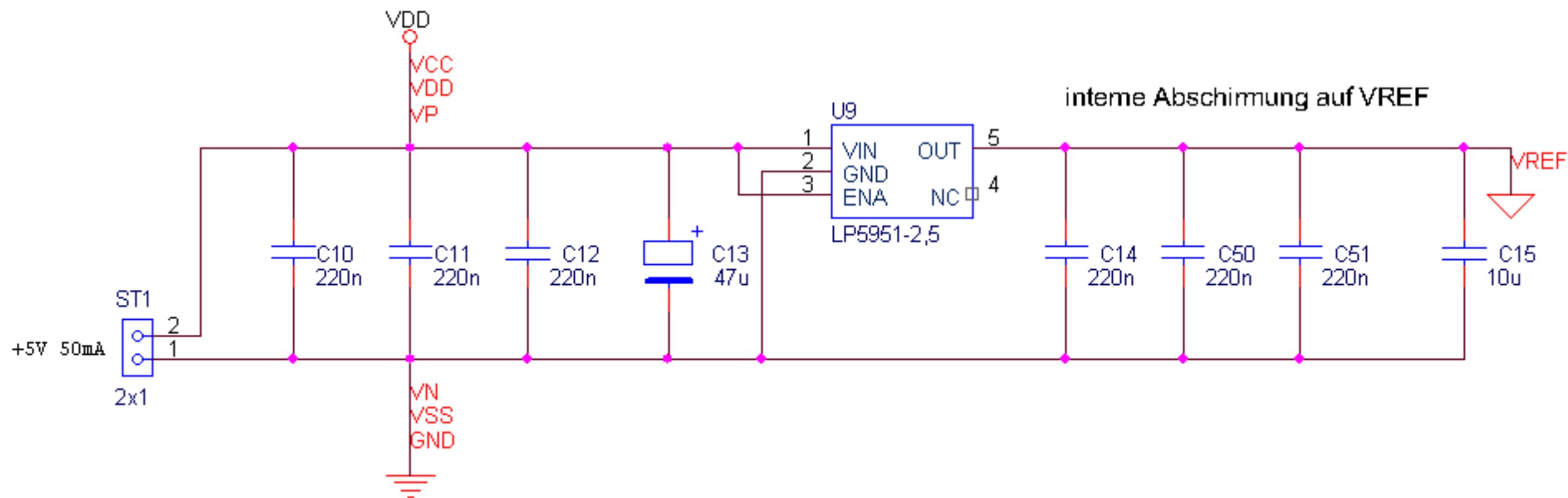
| # | layer | type | cupour |
|---|-------|---------|--------|
| 1 | TOP | routing | GND |
| 2 | BOT | routing | VDD |
| 3 | GND | routing | GND |
| 4 | PWR | plane | VREF |

| | | |
|--------------------------------------|----------------------------|--------------|
| v12 : Preamp mit MAX4066 statt DG403 | | |
| Title | | |
| 6-Kanal Chopper Preamplifier CHAMP6 | | |
| Size | Document Number | Rev |
| A | heinz@gfai.de | 20 |
| Date: | Tuesday, December 15, 2009 | Sheet 1 of 6 |

USART RS232



| | | | | | | | | |
|-------|--|--|----------------------------|--|--|-------|--|--|
| Title | | | Control Circuit ATmega8 | | | M2 | | |
| Size | | | Document Number | | | Rev | | |
| A4 | | | heinz@gfai.de | | | 20 | | |
| Date: | | | Tuesday, December 15, 2009 | | | Sheet | | |
| | | | | | | 2 | | |
| | | | | | | of | | |
| | | | | | | 6 | | |



Title

Power Supply

M1

Size

A4

Document Number

heinz@gfai.de

Rev

20

Date:

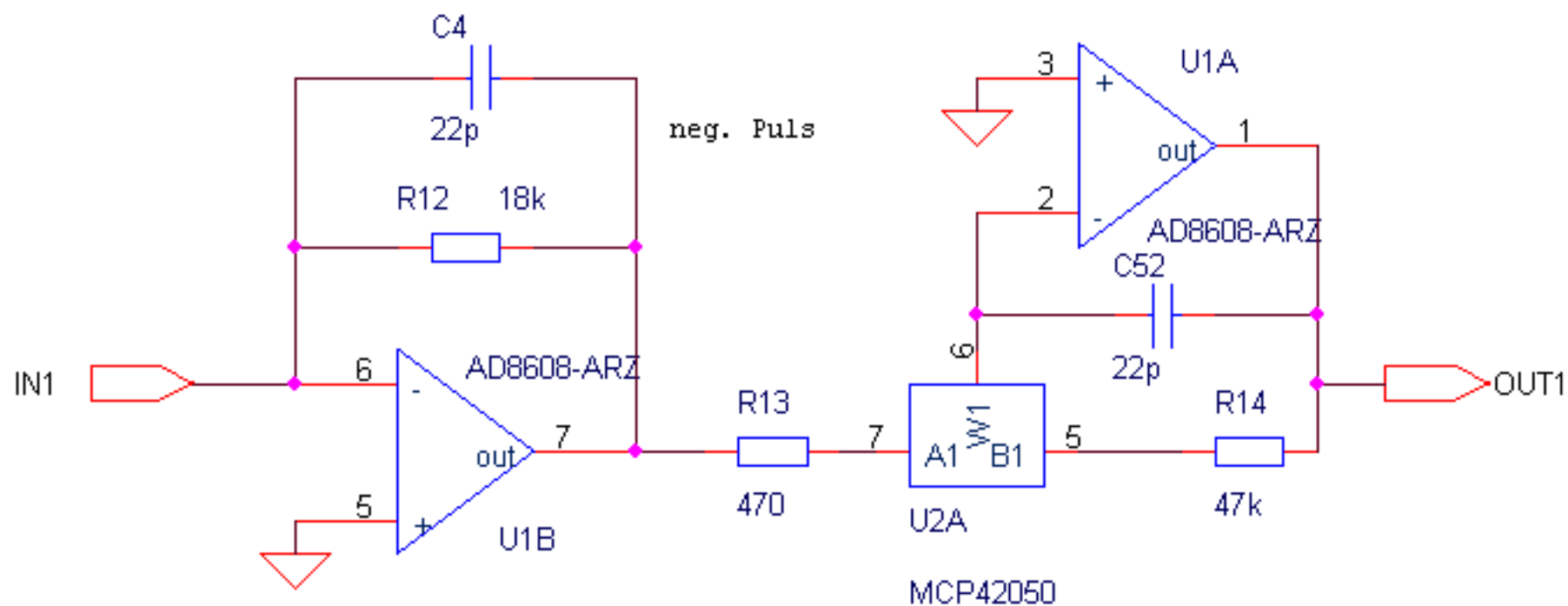
Monday, December 14, 2009

Sheet

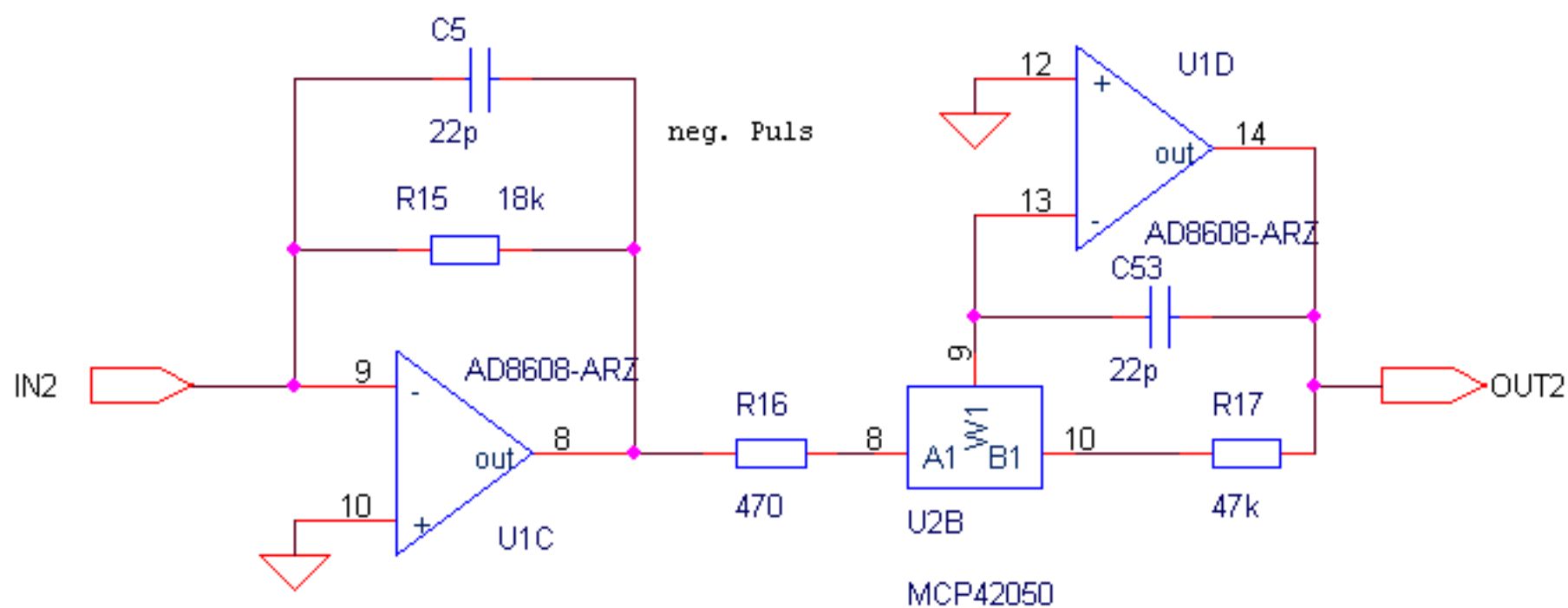
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of

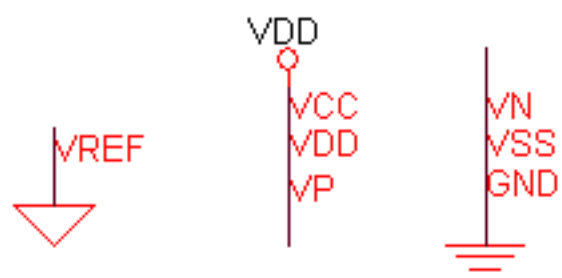
6



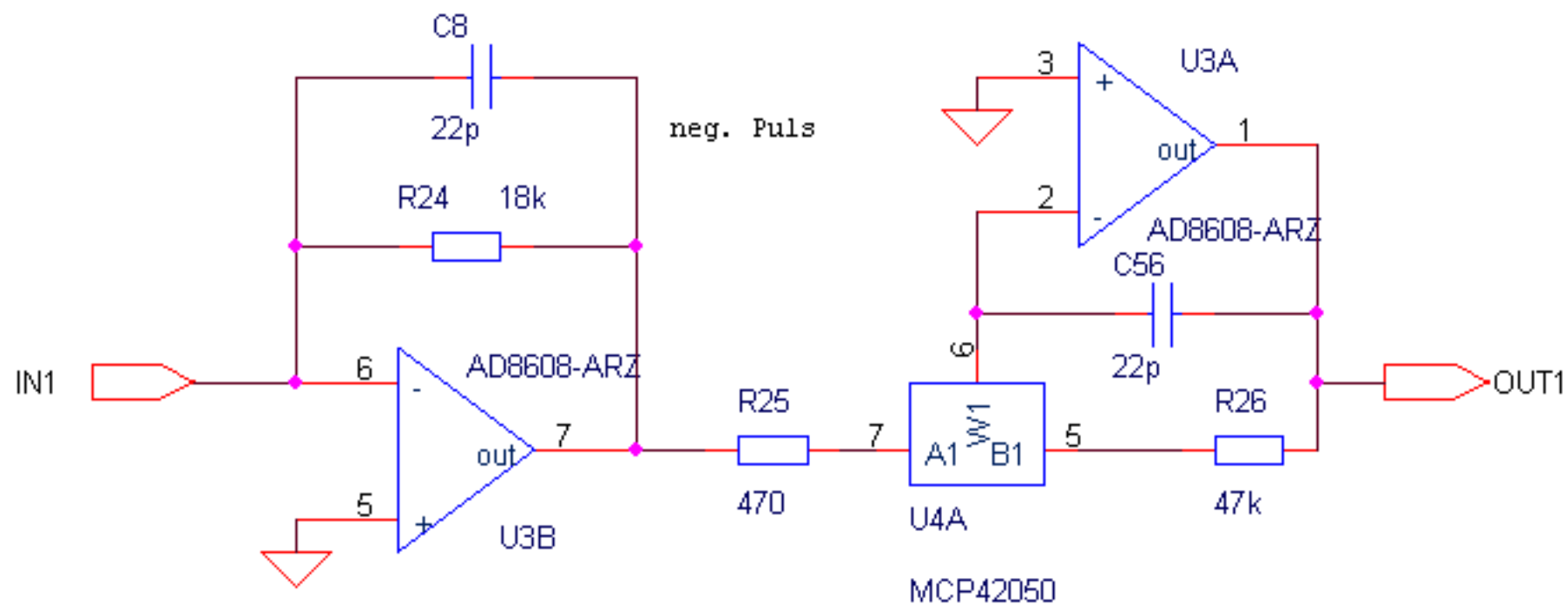
$$0,93 < |v| < 206$$



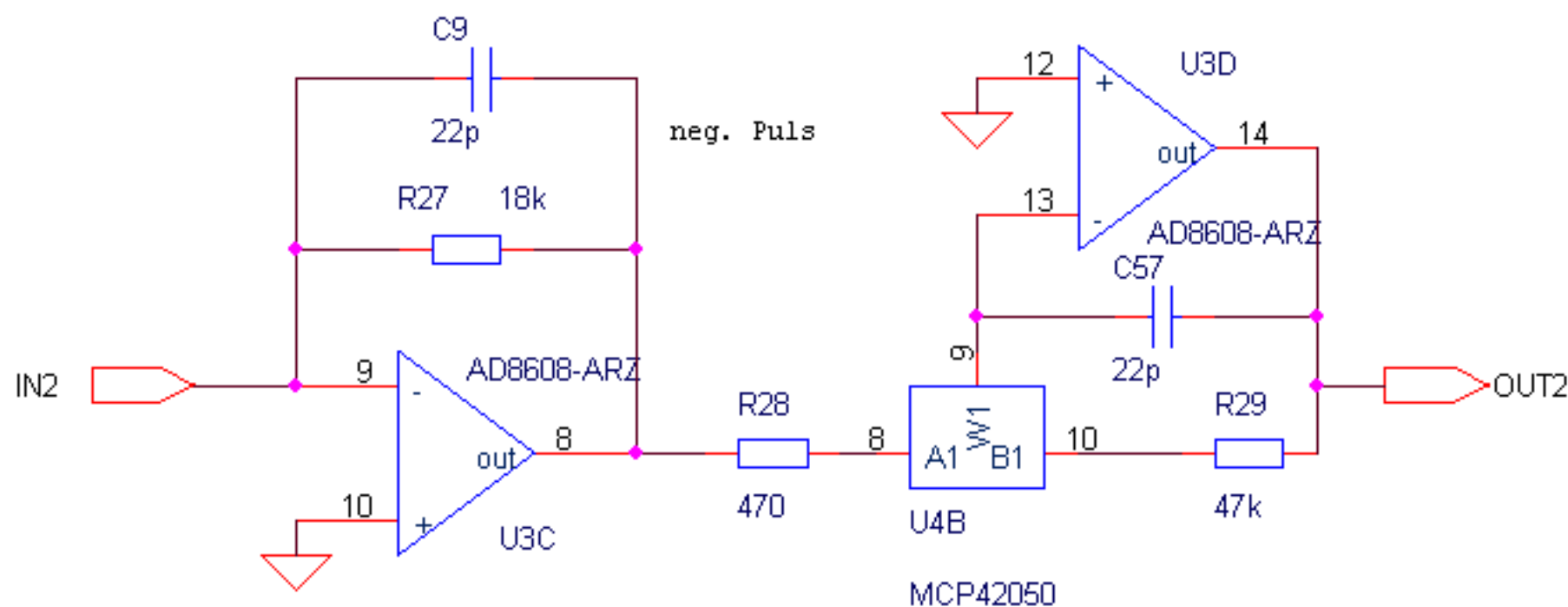
OPV: LT1679 bzw. AD8608



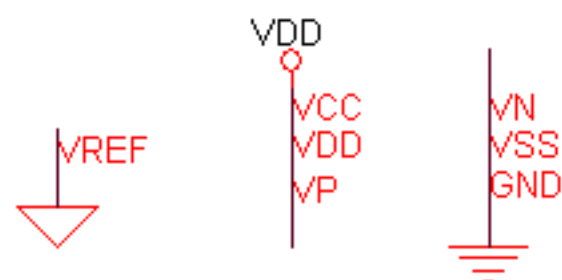
| | | | |
|--------|-------------------------|-------|--------|
| | | | |
| Title | | | M3 |
| Preamp | | | |
| Size | Document Number | | Rev |
| A | heinz@gfai.de | | 20 |
| Date: | Tuesday, April 27, 2010 | Sheet | 1 of 6 |



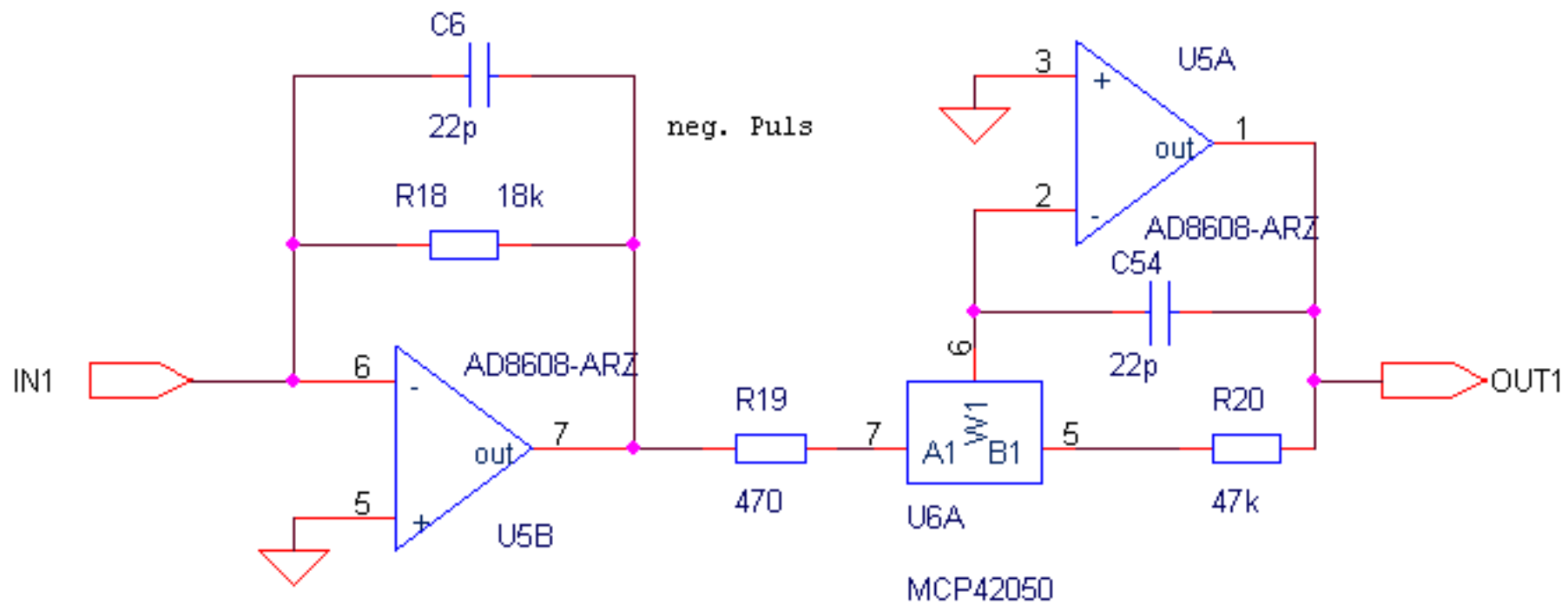
$$0,93 < |v| < 206$$



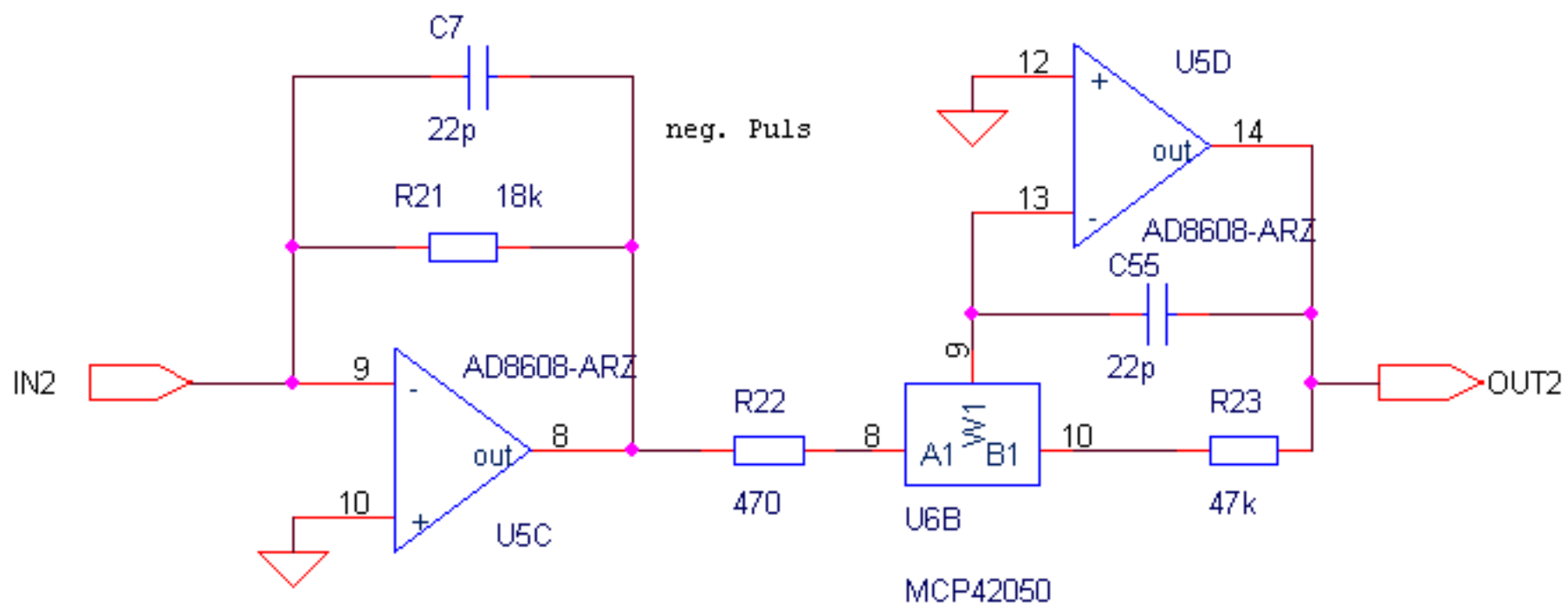
OPV: LT1679 bzw. AD8608



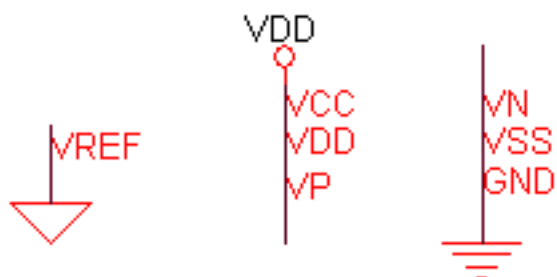
| | | | | | | | | | |
|--------|--|-------------------------|--|--|--|-------|---|----|-----|
| | | | | | | | | | |
| Title | | | | | | | | | |
| Preamp | | | | | | | | | |
| M4 | | | | | | | | | |
| Size | | Document Number | | | | | | | Rev |
| A | | heinz@gfai.de | | | | | | | 20 |
| Date: | | Tuesday, April 27, 2010 | | | | Sheet | 3 | of | 6 |



$$0,93 < |v| < 206$$



OPV: LT1679 bzw. AD8608



| | | | |
|--------|-------------------------|-------|--------|
| | | | |
| Title | | | M5 |
| Preamp | | | |
| Size | Document Number | | Rev |
| A | heinz@gfai.de | | 20 |
| Date: | Tuesday, April 27, 2010 | Sheet | 2 of 6 |

6-Kanal Photo-Preamplifier CHAMP6
Revised: Monday, December 14, 2009
Revision: v20

G. Heinz, GFaI e.V.
Rudower Chaussee 30
Umsatzsteuer-Identifikationsnummer: DE 153647354
Tel. 6392-1652
heinz@gfai.de

Bill Of Materials December 14,2009 15:01:52 Page1/1

| Item | Qty Stck | Ref. | Part | Distr. | Price |
|------|-------------|-----------------------------------|--|----------|-------|
| 1 | 2 | BU1,BU2 | Molex SD-43860 Mercateo-9251898 0,13 | | |
| 2 | 1 | BU3 | Buchse 0,1" 11x2 90° | | |
| 3 | 1 | BU4 | Buchse 0,1" 5x1 | | |
| 4 | 1 | BU5 | Buchse 0,1" 6x1 | | |
| 5 | 1 | C1 | 4.7n | | |
| 6 | 1 | C2 | 100n | | |
| 7 | 7 | C3,C10,C11, C12, C14,C50,C51 | 220n | | |
| 8 | 6 | C4,C5,C6, C7,C8,C9 | 22p | | |
| 9 | 1 | C13 | 47u | | |
| 10 | 1 | C15 | 10u | | |
| 11 | 1 | D1 | LED 3mm red | | |
| 12 | 1 | D2 | LED 3mm green | | |
| 13 | 2 | JP1,ST1 | Stecker 0,1" 2x1 | | |
| 14 | 1 | L1 | 10uH, 100mA | | |
| 15 | 1 | Q1 | CSTCV14M7X54J-R0 (14.74 MHz) Mouser 2.06 | | |
| 16 | 7 | R1,R2,R3,R4,R5, R6,R7, | 120 | | |
| 17 | 8 | R8,R9,R12,R15, R18,R21,R24,R27 | 18k | | |
| 18 | 2 | R10,R11 | 680 | | |
| 19 | 6 | R13,R16,R19, R22,R25,R28 | 470 | | |
| 20 | 6 | R14,R17,R20, R23,R26,R29 | 47k | | |
| 21 | 3 | U1,U3,U5 | LT1679CS#PBF | Farnell | 5,24 |
| | | | Ersatz AD8608ARZ | rsonline | 3,52 |
| | | | evtl. AD8544ARZ | rsonline | 0,64 |
| 22 | 3 | U2,U4,U6 | MCP42050-E/SL | Farnell | 1,59 |
| 23 | 1 | U7 | LTC485CS8 | rsonline | 3,29 |
| | | | Ersatz MAX485CSA | rsonline | 2,84 |
| | | | Ersatz MAX485CSA | elpro | 1,08 |
| | | | Ersatz SNLBC176 | | |
| 24 | 1 | U8 | ATmega8-16AU | Farnell | 3,60 |
| 25 | 1 | U9 | LP5951-2,5 | Farnell | 0,43 |

