

Sheet: /Resolver Receiver SIN+/  
 File: scot-resolver-receiver.sch

**Title:**

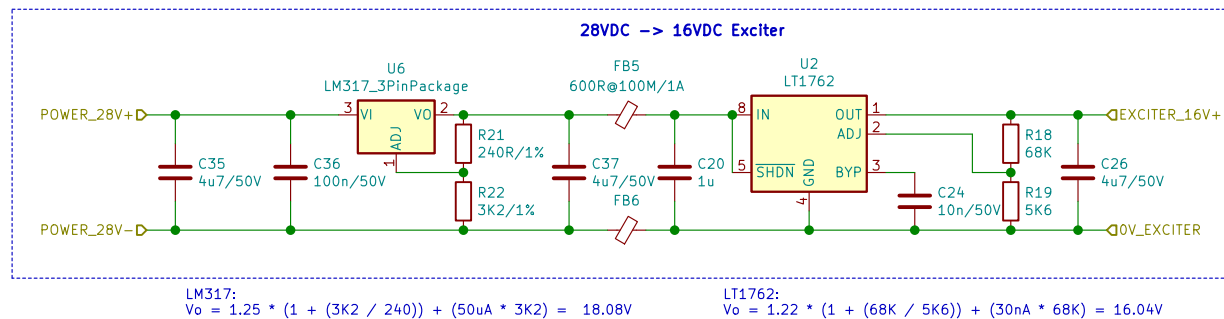
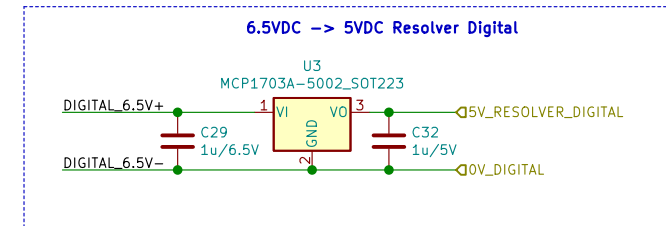
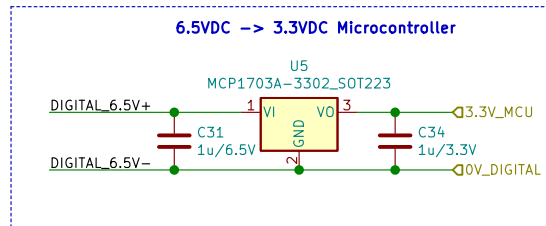
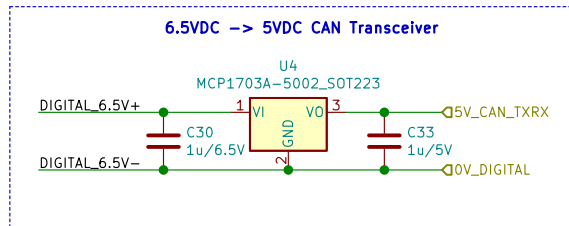
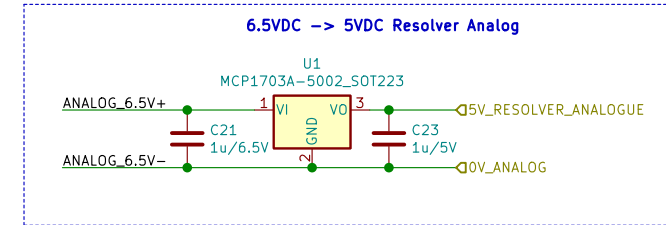
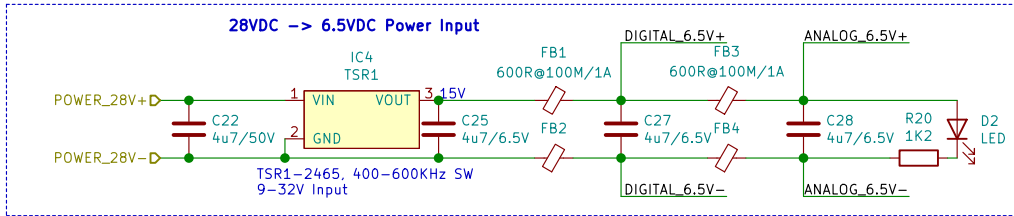
Size: A4

Date:

KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

**Rev:**

Id: 2/7



Sheet: /Power Supplies/  
File: scot-resolver-power.sch

**Title:**

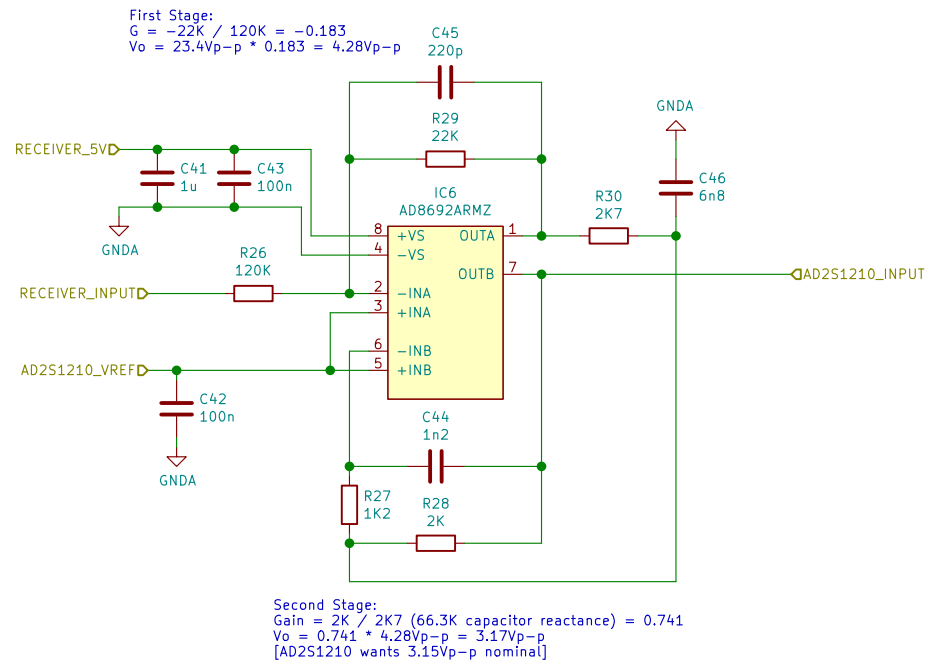
Size: A4

Date:

KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

**Rev:**

Id: 3/7



Sheet: /Resolver Receiver COS+/  
File: scot-resolver-receiver.sch

**Title:**

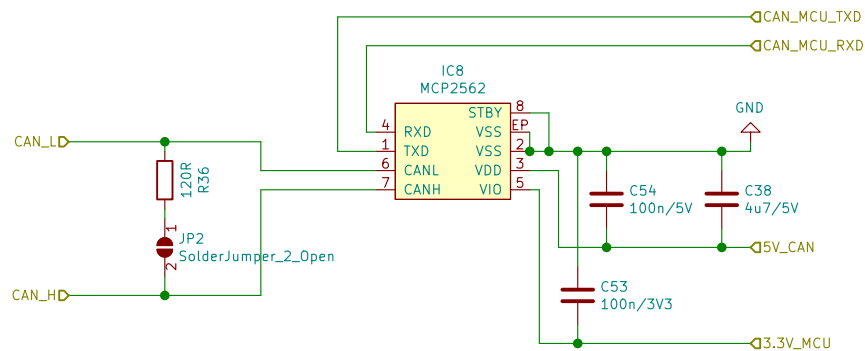
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Date:

KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

**Rev:**

Id: 4/7



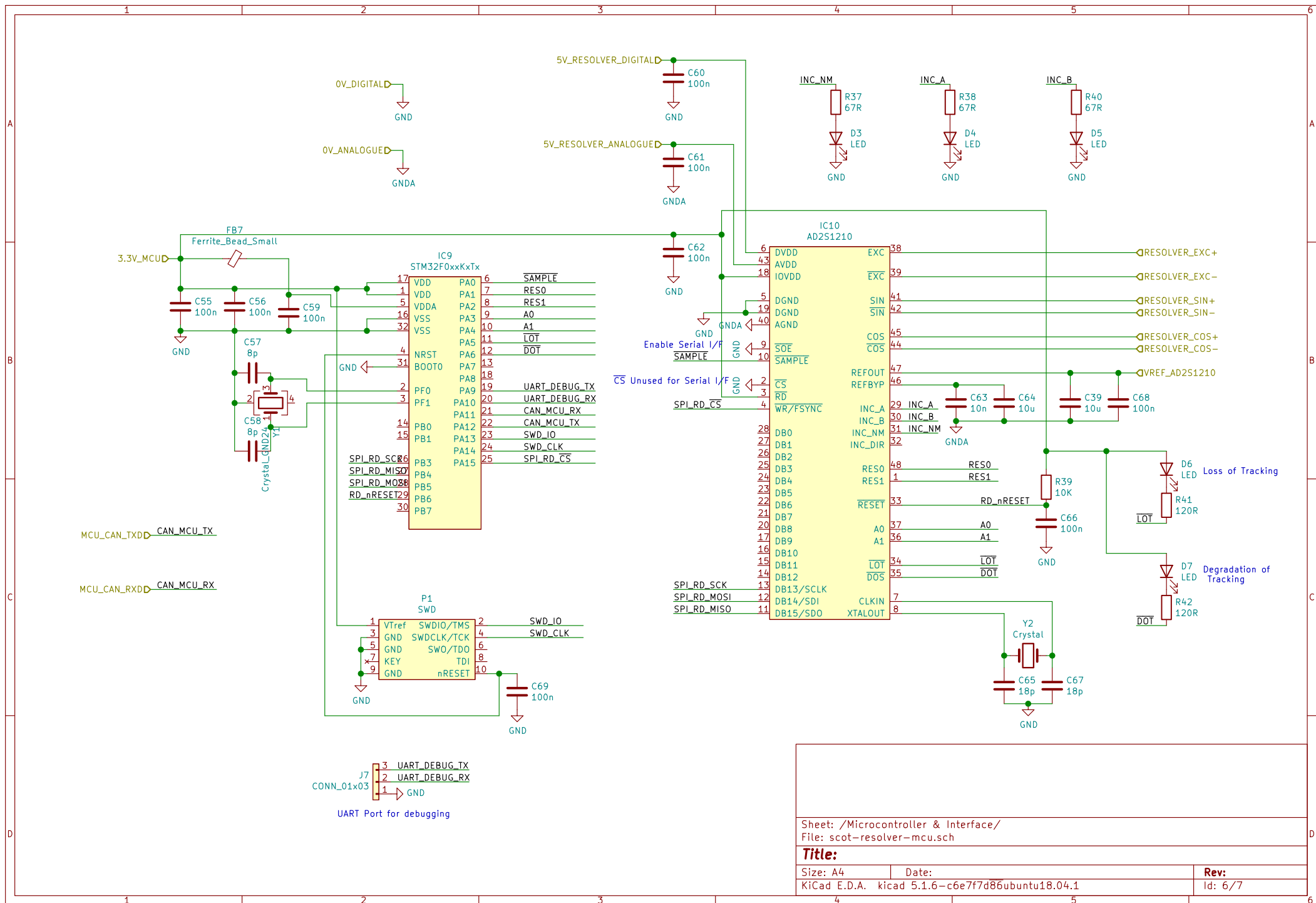
Sheet: /CAN TXRX/  
File: scot-resolver-can-trrx.sch

**Title:**

Size: A4  
KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

Date:

Rev:  
Id: 5/7

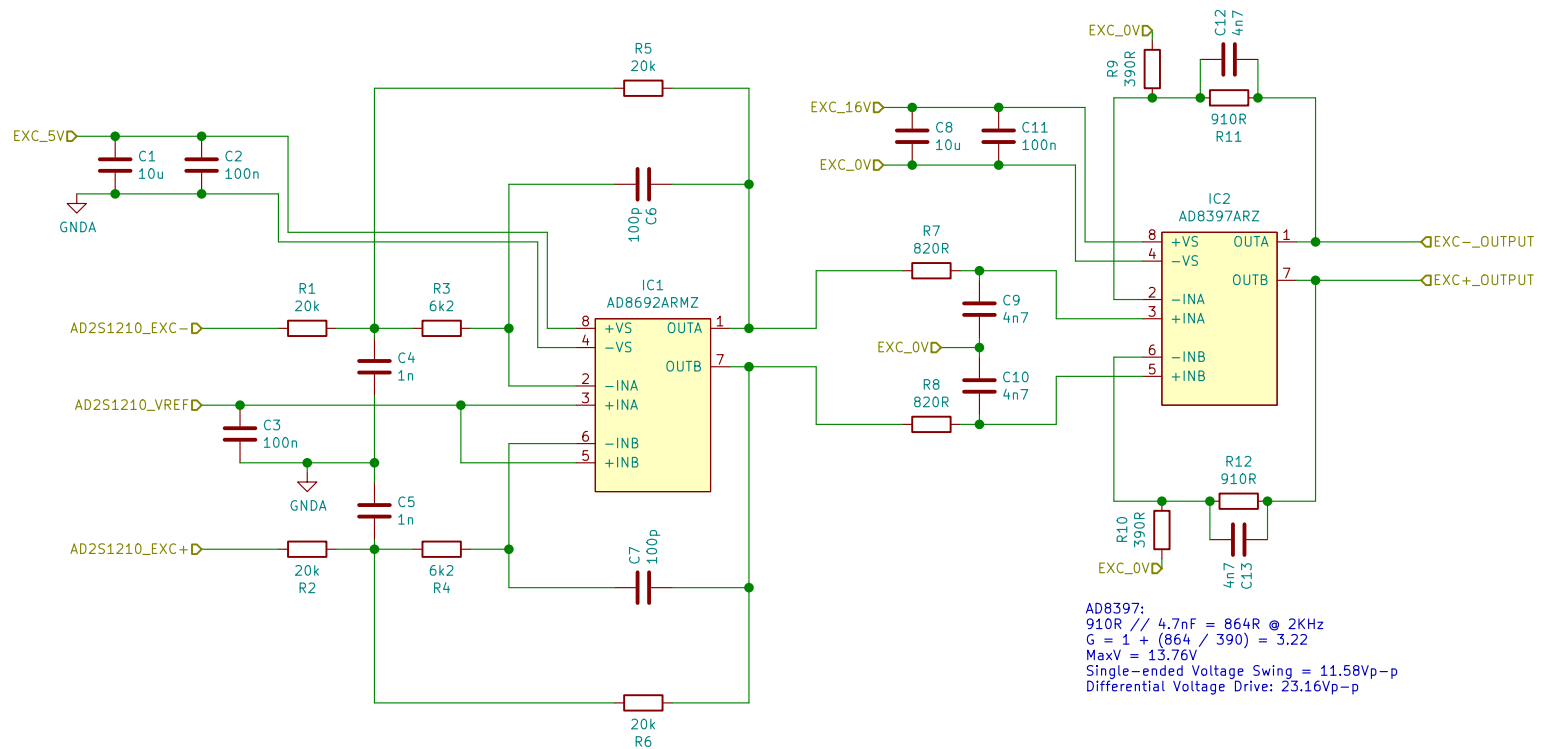


Sheet: /Microcontroller & Interface/  
File: scot-resolver-mcu.sch

**Title:**

Size: A4 Date: KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

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3-Pole Butterworth Filter  
 $G = -1$ ,  $F_c = \text{approx. } 40\text{KHz}$

AD8397:  
 $910R \parallel 4.7nF = 864R @ 2KHz$   
 $G = 1 + (864 / 390) = 3.22$   
 $MaxV = 13.76V$   
 Single-ended Voltage Swing =  $11.58Vp-p$   
 Differential Voltage Drive =  $23.16Vp-p$

Sheet: /Resolver Exciter/  
 File: scot-resolver-exciter.sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

**Rev:**

Id: 7/7