

Power



File: Power.kicad\_sch

Coordinate Transformer

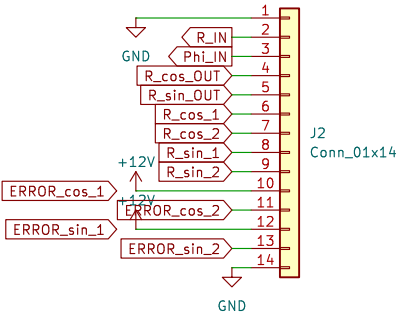


File: Polar\_coord.kicad\_sch

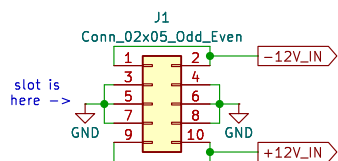
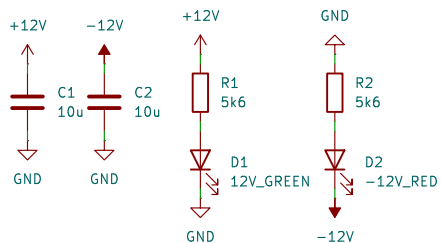
Mounting Holes

- H1 MountingHole
- H2 MountingHole

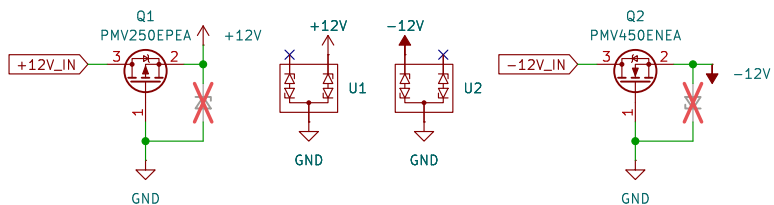
Front-Connector



## Power IN



## Reverse Polarity Protection and Transient Protection



Handles input power connection, power limiting, and filtering

**Alexander Saal**

Sheet: /Power/

File: Power.kicad\_sch

**Title: Polar Coordinate Transformator**

Size: A4 Date: 2024-10-16

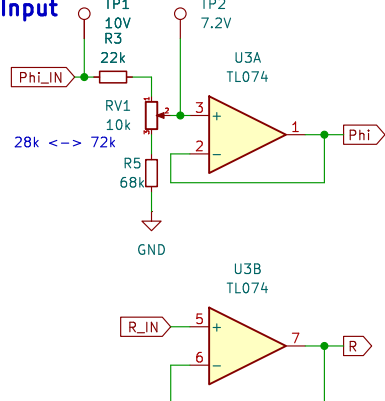
KiCad E.D.A. 8.0.5

**Rev: 1**

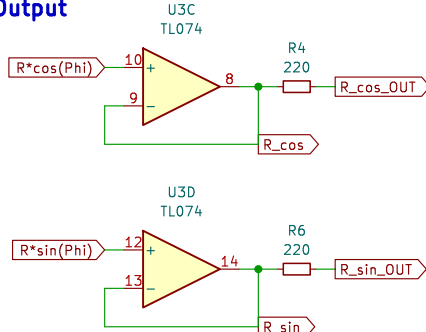
Id: 2/3

## OP-amp 1

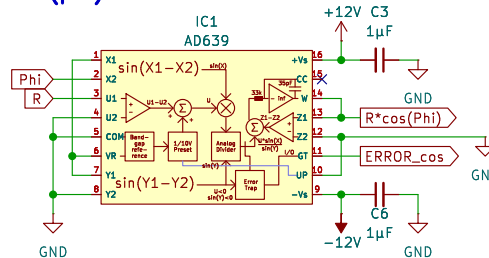
### Input



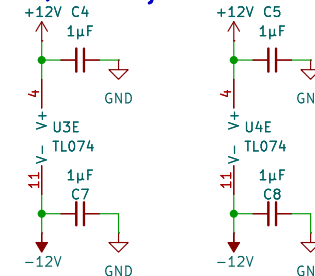
### Output



## r\*cos(phi)

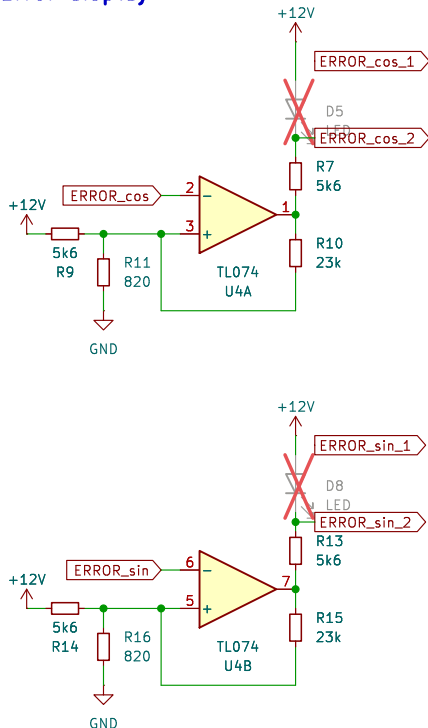


## Power, other systems

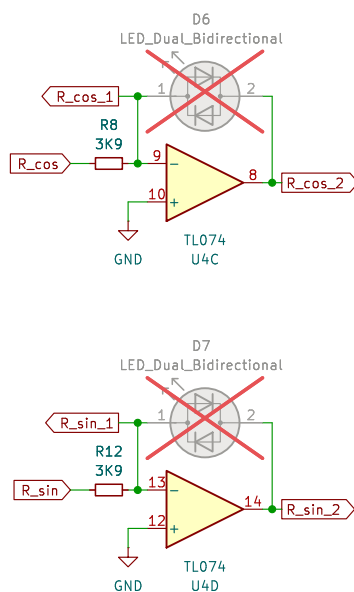


## OP-amp 2

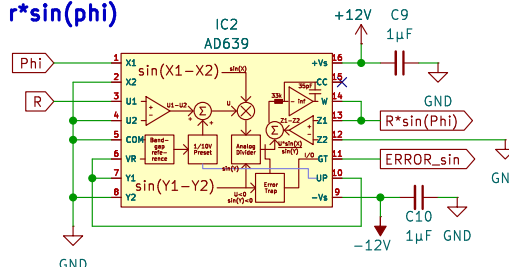
### Error display



### Show output



## r\*sin(phi)



Alexander Saal

Sheet: /Coordinate Transformator/

File: Polar\_coord.kicad\_sch

**Title: Polar Coordinate Transformator**

Size: A4 Date: 2024-10-16

KiCad E.D.A. 8.0.5

Rev:

Id: 3/3