Power

File: power.kicad_sch

Division Module

File: Division_module.kicad_sch

Overload Indicator

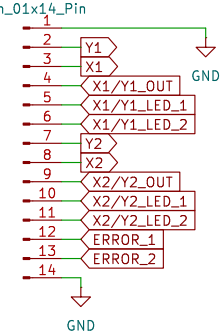
File: Overload_indicator.kicad_sch

Division Module Additional

File: Division_module_Mult.kicad_sch

J1

Conn_01x14_Pin



H1

Circuit Mount

H2

Circuit Mount

H3

Circuit Mount

H4

Circuit Mount

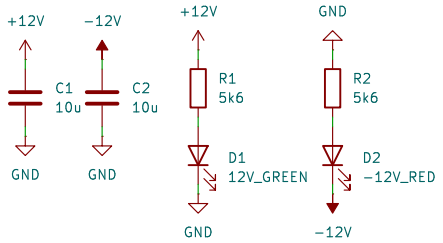
Sheet: /

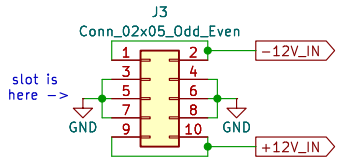
File: Analog_Computer_Division_Module.kicad_sch

Title: Analog Computer Division Module

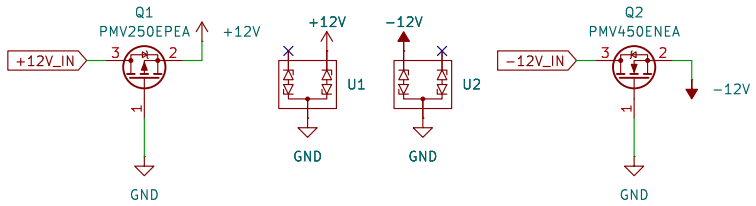
Size: A4	Date: 2025-01-09	**Rev: 1**
KiCad E.D.A. 8.0.6		Id: 1/5

Power IN

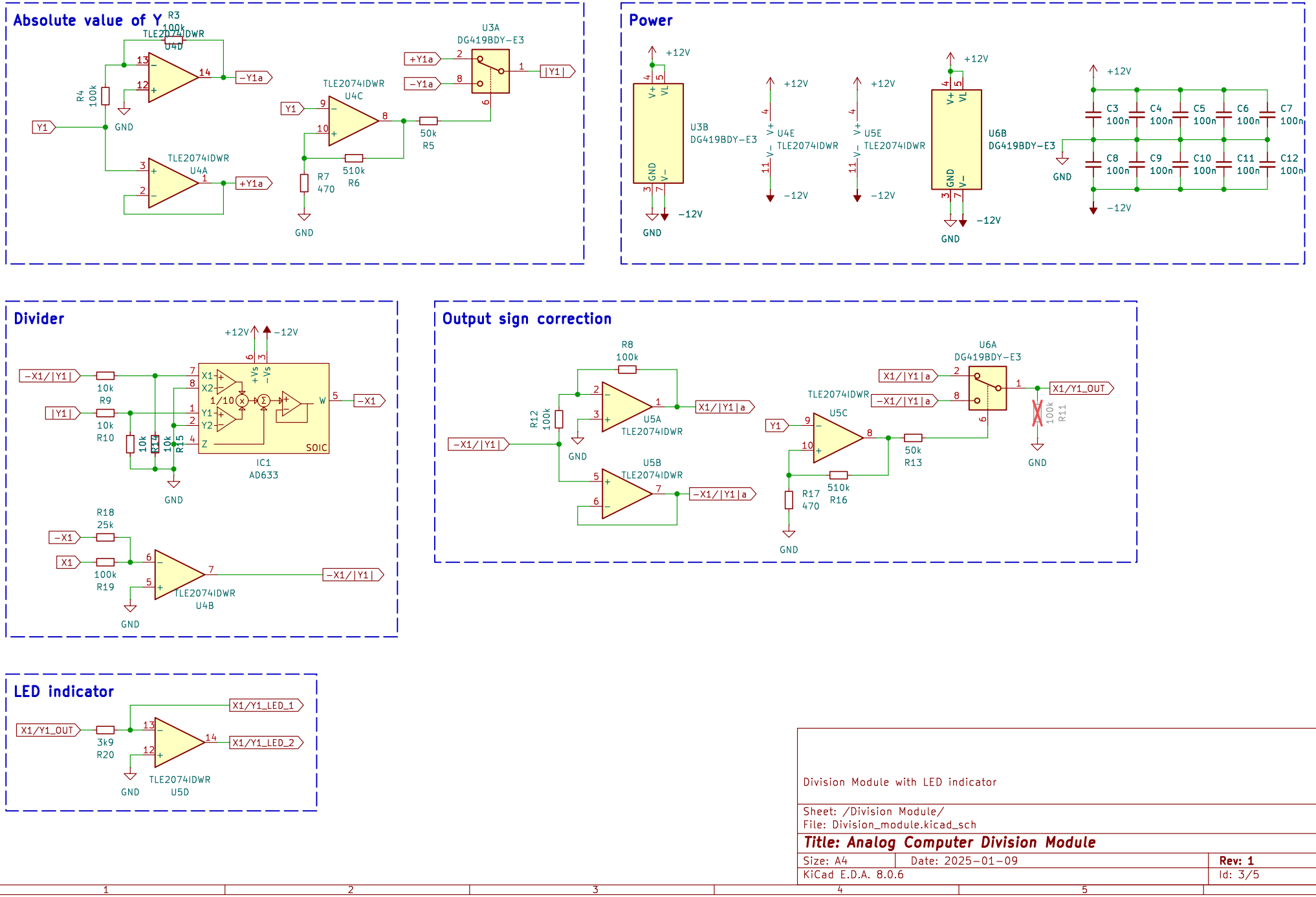




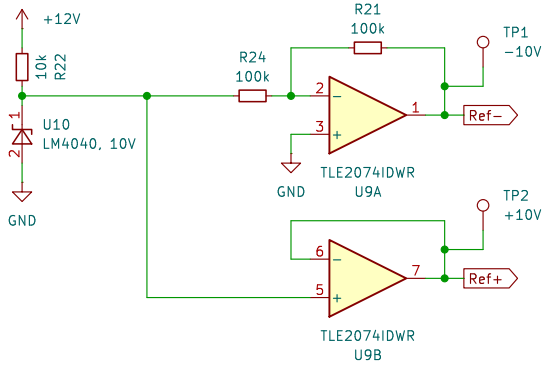
Reverse Polarity Protection and Transient Protection



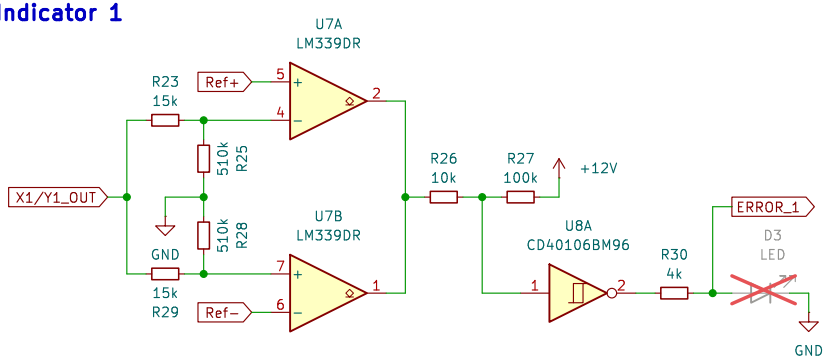
Sheet: /Power/		
File: power.kicad_sch		
Title: Analog Computer Division Module		
Size: A4	Date: 2025-01-09	**Rev: 1**
KiCad E.D.A. 8.0.6		Id: 2/5


Absolute value of Y
R3
100k
TLE2074IDWR
U4D
R4
100k
Y1
GND
TLE2074IDWR
U4A
+Y1a
−Y1a
TLE2074IDWR
U4C
R7
470
510k
R6
50k
R5
U3A
DG419BDY−E3
|Y1|
Power
+12V
U3B
DG419BDY−E3
−12V
U4E
TLE2074IDWR
U5E
TLE2074IDWR
U6B
DG419BDY−E3
C3
100n
C4
100n
C5
100n
C6
100n
C7
100n
C8
100n
C9
100n
C10
100n
C11
100n
C12
100n
Divider
−X1/|Y1|
|Y1|
10k
R9
10k
R10
10k
R14
10k
R15
IC1
AD633
SOIC
1/10
−X1
R18
25k
X1
100k
R19
U4B
TLE2074IDWR
−X1/|Y1|
Output sign correction
R8
100k
R12
100k
U5A
TLE2074IDWR
X1/|Y1|a
U5B
TLE2074IDWR
U5C
TLE2074IDWR
U6A
DG419BDY−E3
X1/Y1_OUT
R11
100k
50k
R13
510k
R16
R17
470
LED indicator
X1/Y1_OUT
3k9
R20
X1/Y1_LED_1
X1/Y1_LED_2
U5D
Division Module with LED indicator
Sheet: /Division Module/
File: Division_module.kicad_sch
Title: Analog Computer Division Module
Size: A4
Date: 2025−01−09
Rev: 1
KiCad E.D.A. 8.0.6
Id: 3/5

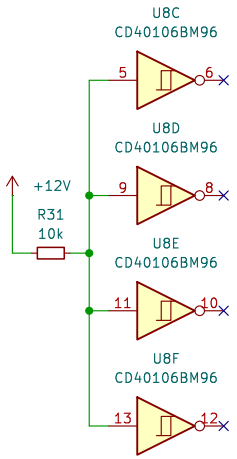
Votage Reference for +10V and−10V



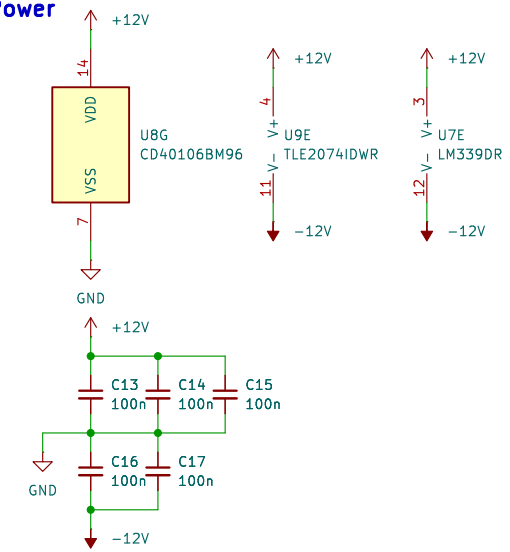
Error Indicator 1



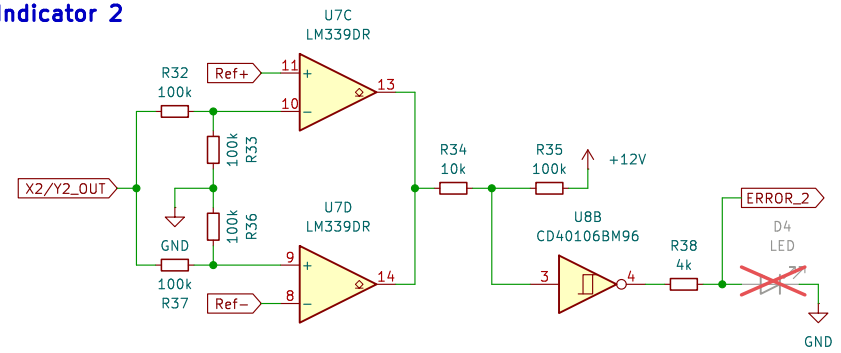
Unused Inverters



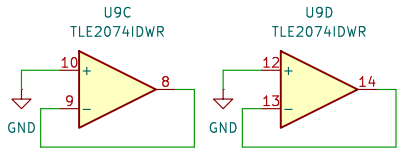
Power



Error Indicator 2



Unused Op−amps



Overload Indicator

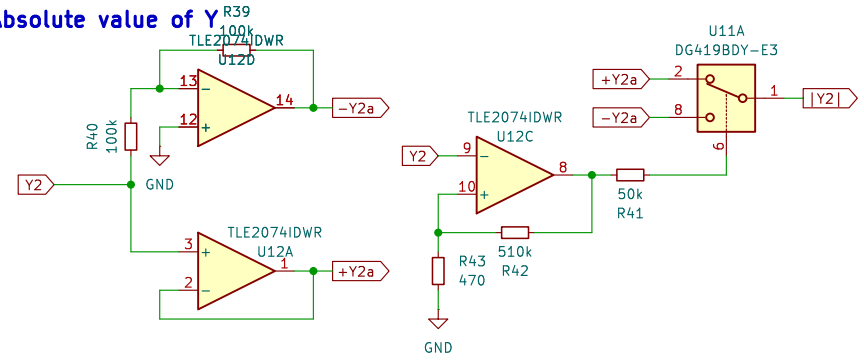
Sheet: /Overload Indicator/
File: Overload_indicator.kicad_sch

Title: Analog Computer Division Module

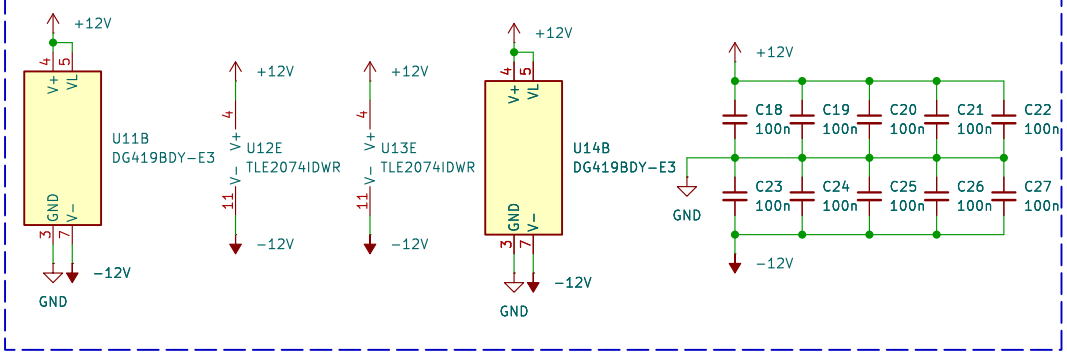
Size: A4	Date: 2025−01−09	**Rev: 1**
KiCad E.D.A. 8.0.6		Id: 4/5

DIVIDER 2

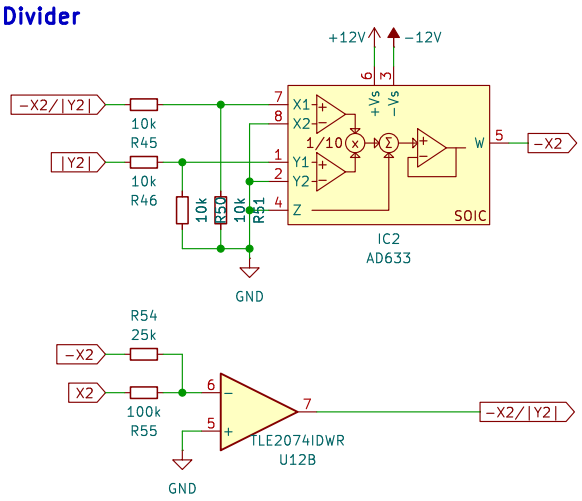
Absolute value of Y



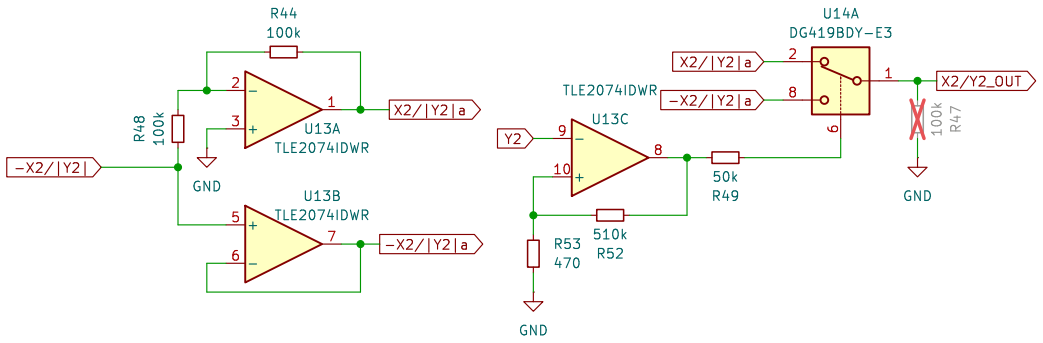
Power



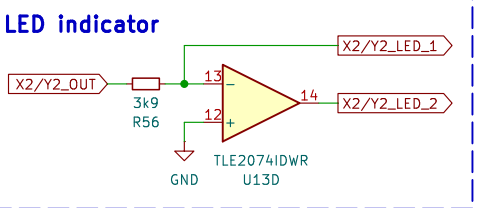
Divider



Output sign correction



LED indicator



Sheet: /Division Module Additional/		
File: Division_module_Mult.kicad_sch		
Title: Analog Computer Division Module		
Size: A3	Date: 2025−01−09	**Rev: 1**
KiCad E.D.A. 8.0.6		Id: 5/5