Power

File: power.kicad_sch

Logarithm

File: Logarithm.kicad_sch

Absolute

File: Absolute.kicad_sch

Square−Root

File: Squareroot.kicad_sch

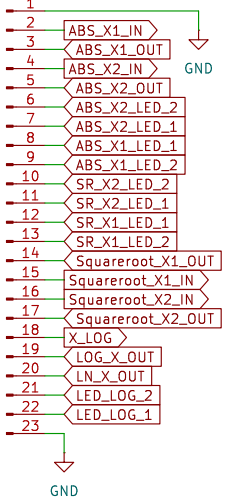
Indicators_ABS_SR

File: Indicators.kicad_sch

Front−Connector

J1

Conn_01x23_Pin



Mounting Holes

H1
MountingHole

H2
MountingHole

H3
MountingHole

H4
MountingHole

Saal 2025

Sheet: /

File: Math_Support_Module.kicad_sch

Title: Analog Computer Math Module

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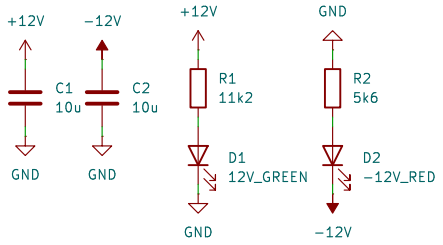
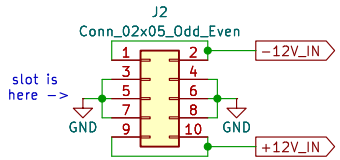
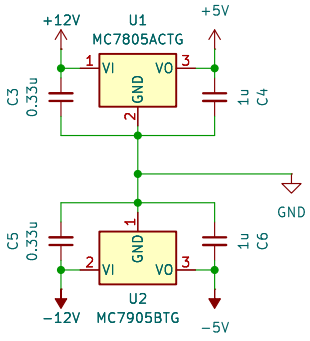
Power IN

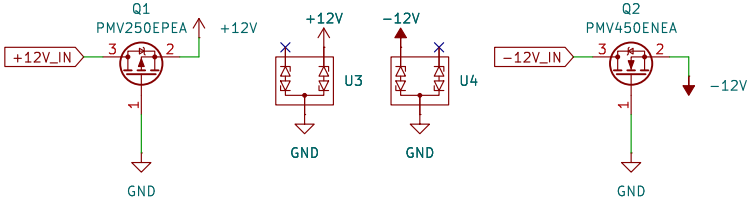




+−5V Power



Reverse Polarity Protection and Transient Protection



Input Power
Saal 2025
Sheet: /Power/
File: power.kicad_sch

Title: Analog Computer Math Module

Size: A4	Date: 2025-01-29	**Rev: 1**
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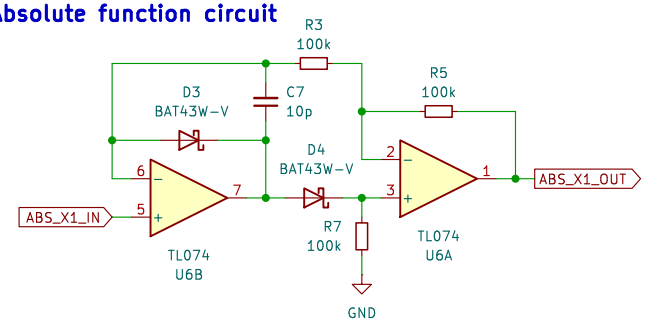
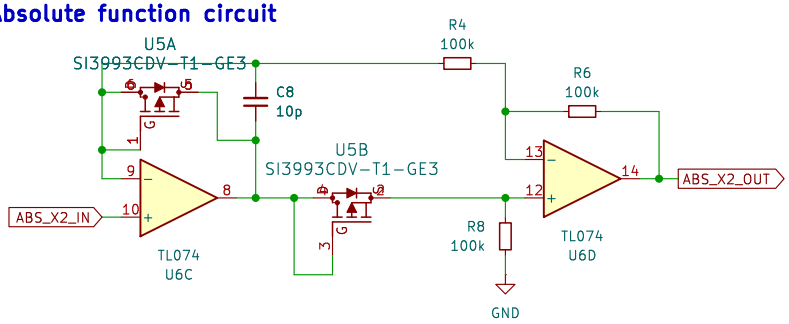
Absolute function circuit

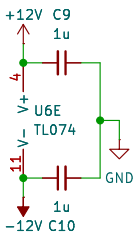


Absolute function circuit



I want to test, if couples mosfets on the same substrate perform better than diodes

Power



Absolute Function		
Saal 2025		
Sheet: /Absolute/		
File: Absolute.kicad_sch		
Title: Analog Computer Math Module		
Size: A4	Date: 2025-01-29	**Rev: 1**
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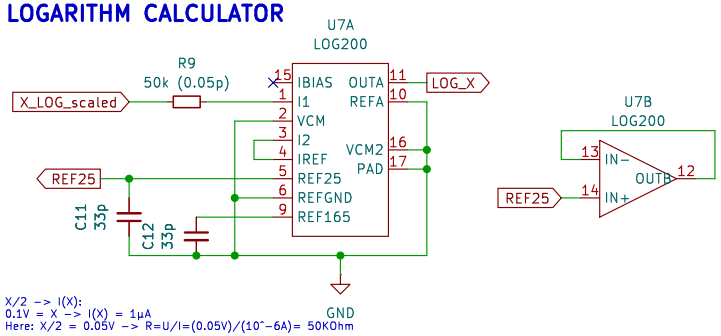
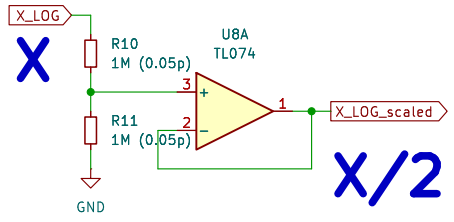
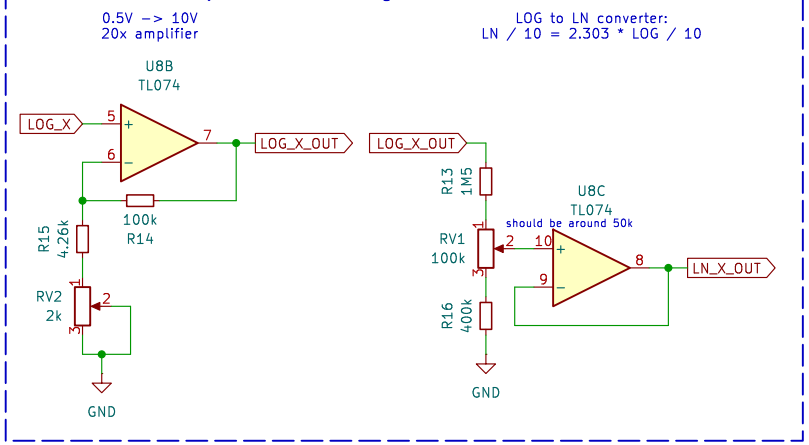
LOGARITHM CALCULATOR



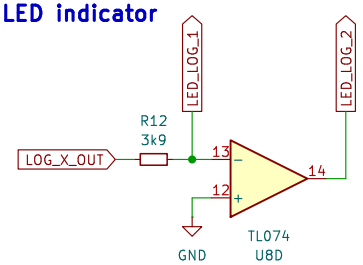
Signal IN, shape +−10V −> +−5V



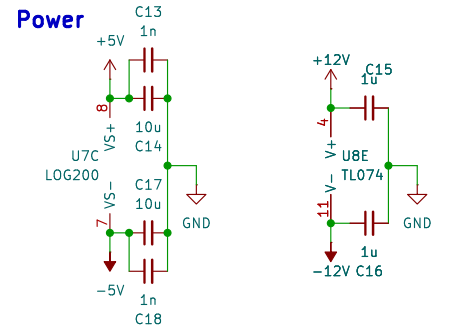
LOG and LN Output with scaling



LED indicator



Power



Logarithm Function
Saal 2025
Sheet: /Logarithm/
File: Logarithm.kicad_sch

Title: Analog Computer Math Module

Size: A4	Date: 2025−01−29	**Rev: 1**
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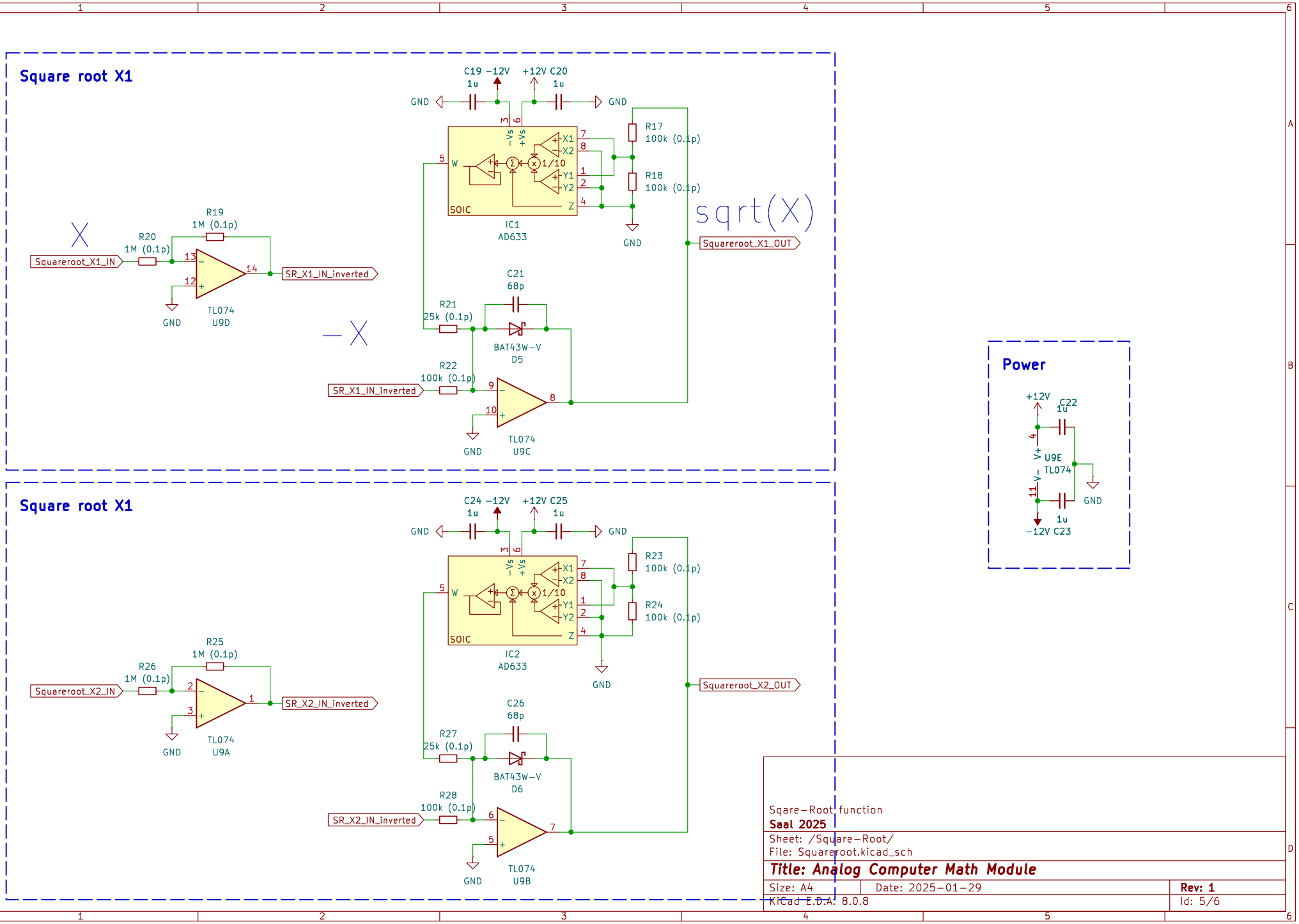
Square root X1
C19 -12V
1u
+12V C20
1u
GND
GND
R17
100k (0.1p)
R18
100k (0.1p)
X1
X2
Y1
Y2
W
Z
1/10
SOIC
IC1
AD633
GND
Squareroot_X1_OUT
sqrt(X)
X
R19
1M (0.1p)
R20
1M (0.1p)
Squareroot_X1_IN
SR_X1_IN_inverted
TL074
U9D
GND
C21
68p
R21
25k (0.1p)
BAT43W-V
D5
R22
100k (0.1p)
SR_X1_IN_inverted
TL074
U9C
GND
Square root X1
C24 -12V
1u
+12V C25
1u
GND
GND
R23
100k (0.1p)
R24
100k (0.1p)
SOIC
IC2
AD633
GND
Squareroot_X2_OUT
R25
1M (0.1p)
R26
1M (0.1p)
Squareroot_X2_IN
SR_X2_IN_inverted
TL074
U9A
GND
C26
68p
R27
25k (0.1p)
BAT43W-V
D6
R28
100k (0.1p)
SR_X2_IN_inverted
TL074
U9B
GND
Power
+12V
C22
1u
U9E
TL074
GND
1u
-12V C23
Sqare-Root function
Saal 2025
Sheet: /Square-Root/
File: Squareroot.kicad_sch
Title: Analog Computer Math Module
Size: A4
Date: 2025-01-29
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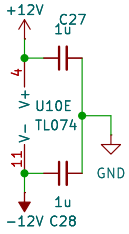
Absolute function Indicators

Squareroot function Indicators

Power



Saal 2025		
Sheet: /Indicators_ABS_SR/		
File: Indicators.kicad_sch		
Title: Analog Computer Math Module		
Size: A4	Date: 2025-01-29	**Rev: 1**
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