

UNIVERSITÉ
LAVAL

Faculté des sciences et de génie
Département de physique,
de génie physique et d'optique

DRAWN BY Maxime Tousignant-Tremblay		COURSE ID GPH-3110		
ID NUMBER 536 772 369	IDUL MATOT9	TITLE Power Supply Unit		
DATE 2023-01-30	DRAWING NO GPH-3110-1	UNITS mm	REV 1	SHEET 1 OF 5

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3

4

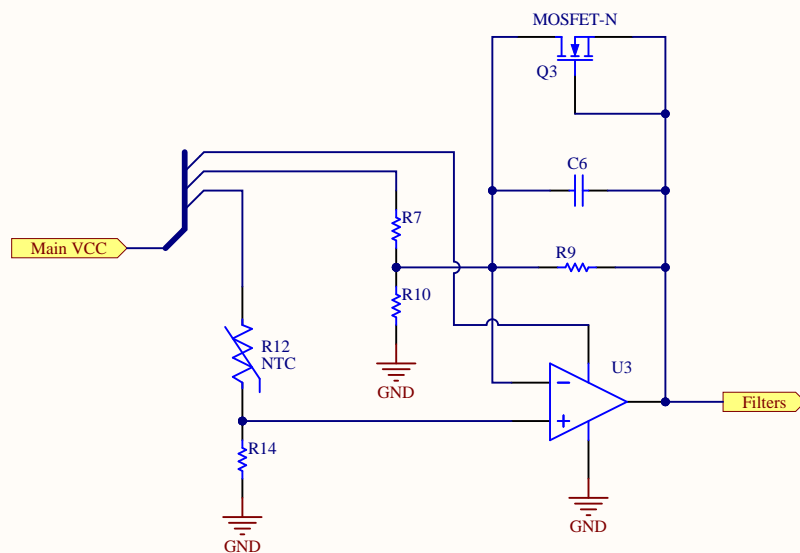
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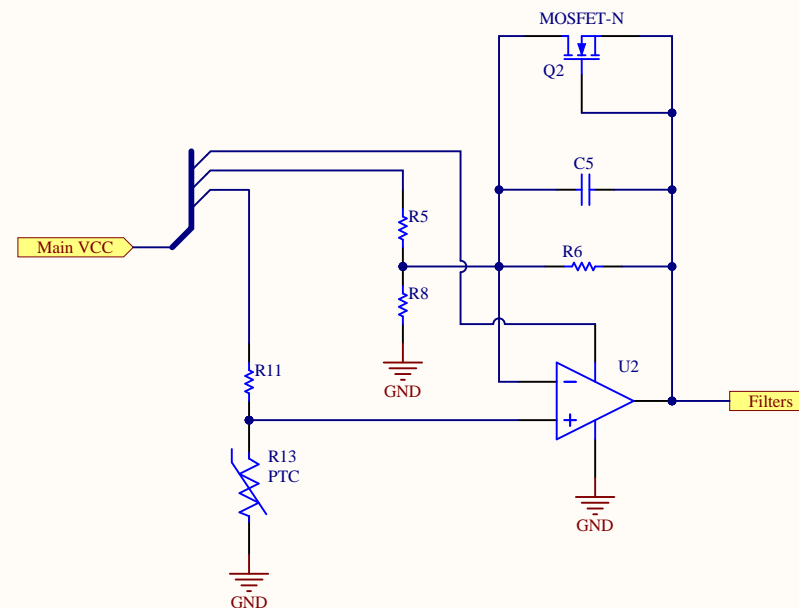
C

D

NTC Thermistor Design



PTC Thermistor Design

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Maxime Tousignant-Tremblay

COURSE ID

GPH-3110

ID NUMBER

536 772 369

IDUL

MATOT9

TITLE

Voltage Divider Design

DATE

2023-01-30

DRAWING NO

GPH-3110-2

UNITS

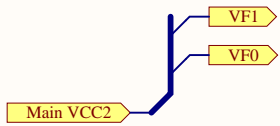
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REV

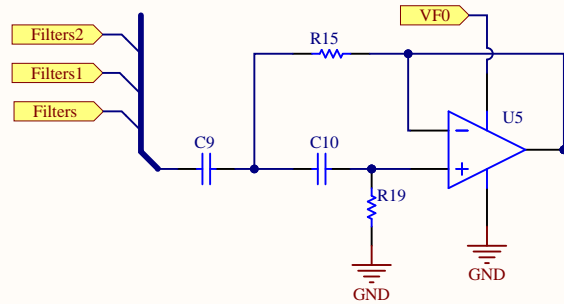
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SHEET 2 OF 5

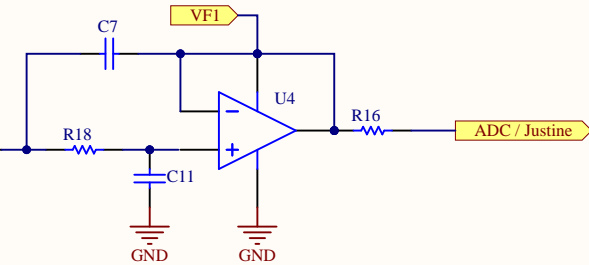
Power Distribution



Sallen-Key High Pass Filter



Sallen-Key Low Pass Filter



ADC / Justine



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COURSE ID

GPH-3110

ID NUMBER

536 772 369

IDUL

MATOT9

TITLE

Analog Filter-ADC interface

DATE

2023-01-30

DRAWING NO

GPH-3110-3

UNITS

mm

REV

1

SHEET 3 OF 5

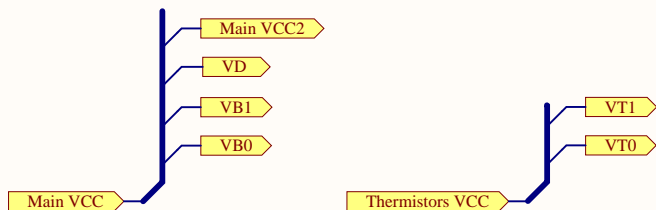
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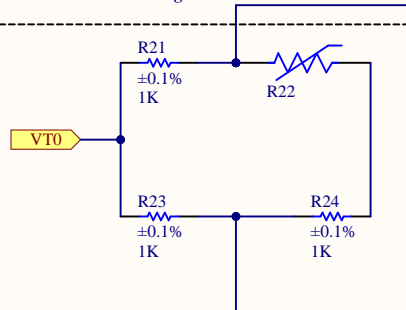
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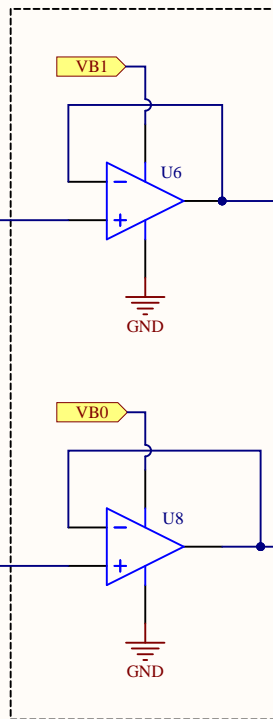
Power Distribution



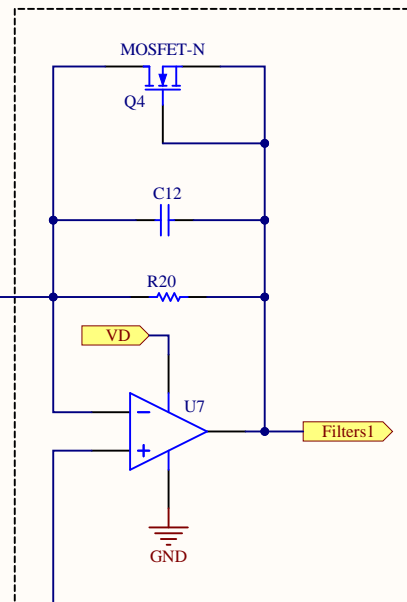
Weatstone Bridge



Buffer Stage



Differential Amplifier

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COURSE ID

GPH-3110

ID NUMBER

536 772 369

IDUL

MATOT9

TITLE

Weatstone Bridge Design

DATE

2023-01-30

DRAWING NO

GPH-3110-4

UNITS

mm

REV

1

SHEET 4 OF 5

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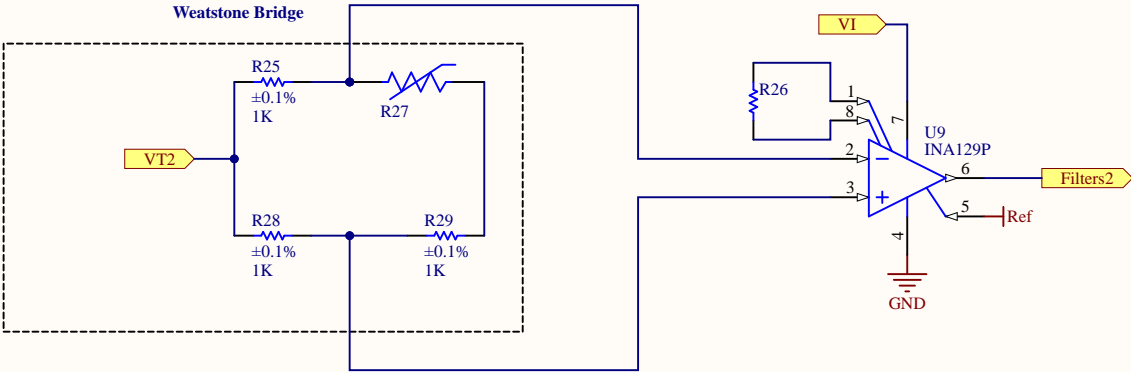
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Power Distribution



Weatstone Bridge



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ID NUMBER
536 772 369

DATE
2023-01-30

IDUL
MATOT9

DRAWING NO
GPH-3110-5

COURSE ID
GPH-3110

TITLE
Instrumentation Amplifier Design

UNITS
mm

REV
1

SHEET 5 OF 5