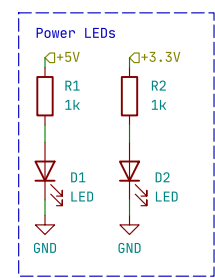


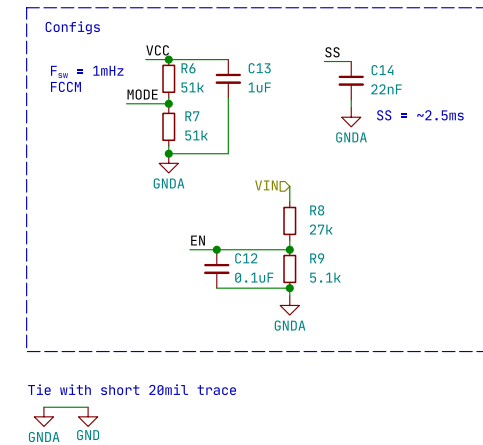
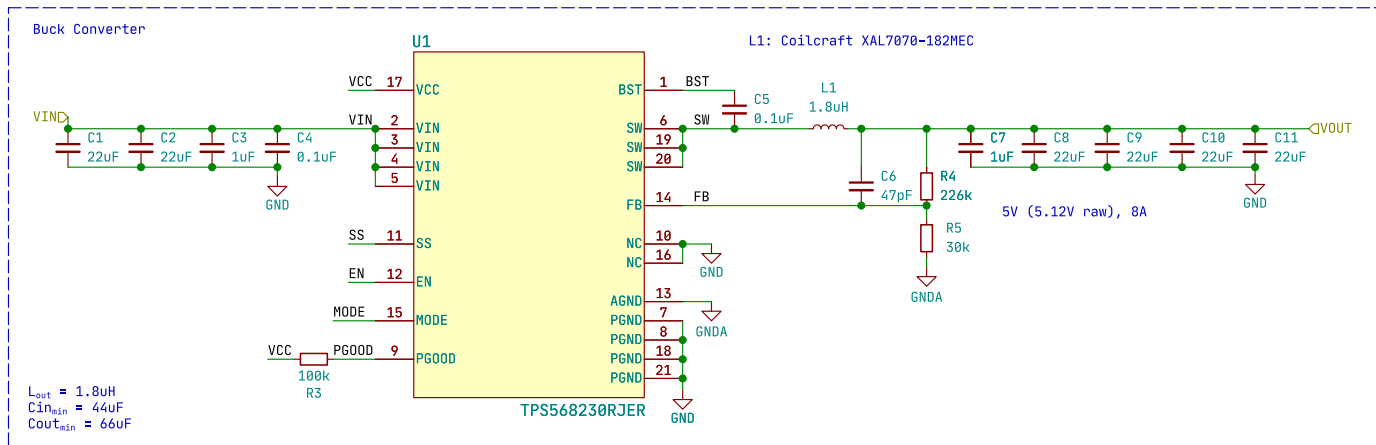
J1: Mega-Fit 76825-0002
 J2: 1x3 5mm screw terminal
 J4: Micro-Fit 0430450821



- H1 MountingHole
- H2 MountingHole

The MUREX Power Board is the world's smallest open-source dual output, high power module designed for ROV applications and other 12V/5V/3.3V DC systems.
 // THINK DIFFERENT, THINK MUREX.
 // INNOVATION IS OUR OBSESSION.
 MUREX Robotics [Max Liu]

Sheet: /	
File: power.kicad_sch	
Title: Power Board	
Size: A4	Date: 2023-11-27
KiCad E.D.A. kicad 7.99.0-3012-g423a5b9961	Rev: V2.0
	Id: 1/5

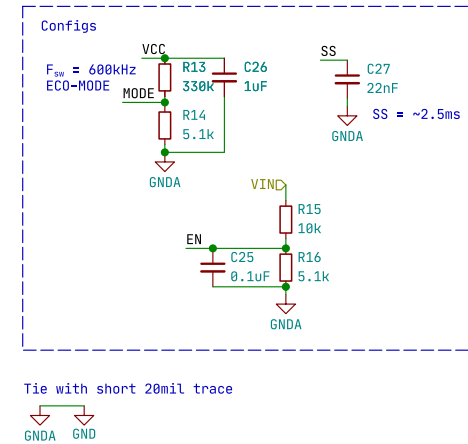
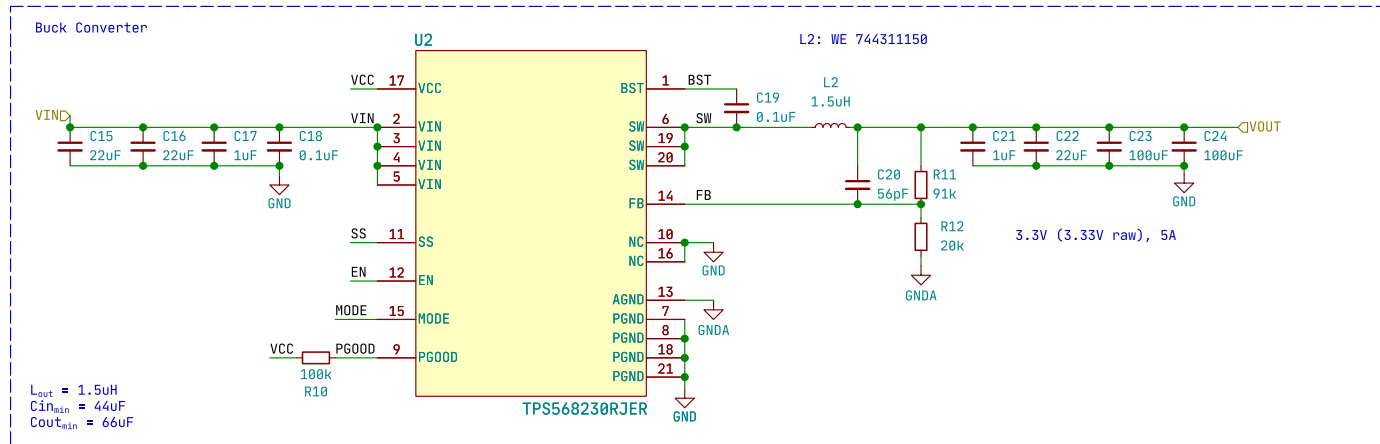


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 MUREX Robotics [Max Liu]

Sheet: /Stage 1 Step Down/
 File: TPS568230.kicad_sch

Title: Power Board

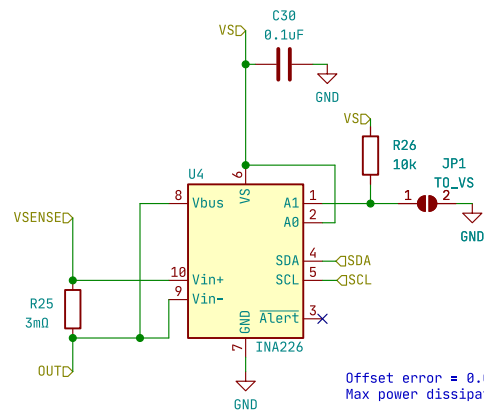
Size: A4	Date: 2023-11-27	Rev: V2.0
KiCad E.D.A.	kicad 7.99.0-3012-g423a5b9961	Id: 2/5



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 Sheet: /Stage 2 Step Down/
 File: TPS568230B.kicad_sch

Title: Power Board

Size: A4	Date: 2023-11-27	Rev: V2.0
KiCad E.D.A.	kicad 7.99.0-3012-g423a5b9961	Id: 3/5



Offset error = $0.0025\text{mV} / (3\text{m}\Omega \times 25\text{A}) = 0.003\%$
 Max power dissipation = $3\text{m}\Omega \times (25\text{A})^2 = 1.875\text{W}$

Default Address: 0x45 | 0b1000101
 A1 -> GND: 0x41 | 0b1000001

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MUREX Robotics [Max Liu]

Sheet: /Current and Power Monitor/

File: INA226.kicad_sch

Title: Power Board

Size: A4 Date: 2023-11-27 Rev: V2.0

KiCad E.D.A. kicad 7.99.0-3012-g423a5b9961 Id: 5/5