

TI Current, Power Sensor

VIN+ — VSENSE

+3V3D — VS

SDA

SCL

OUT — VI

File: INA226.kicad_sch

TI Buck Converter 2

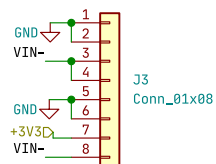
VIN2

VOUT2

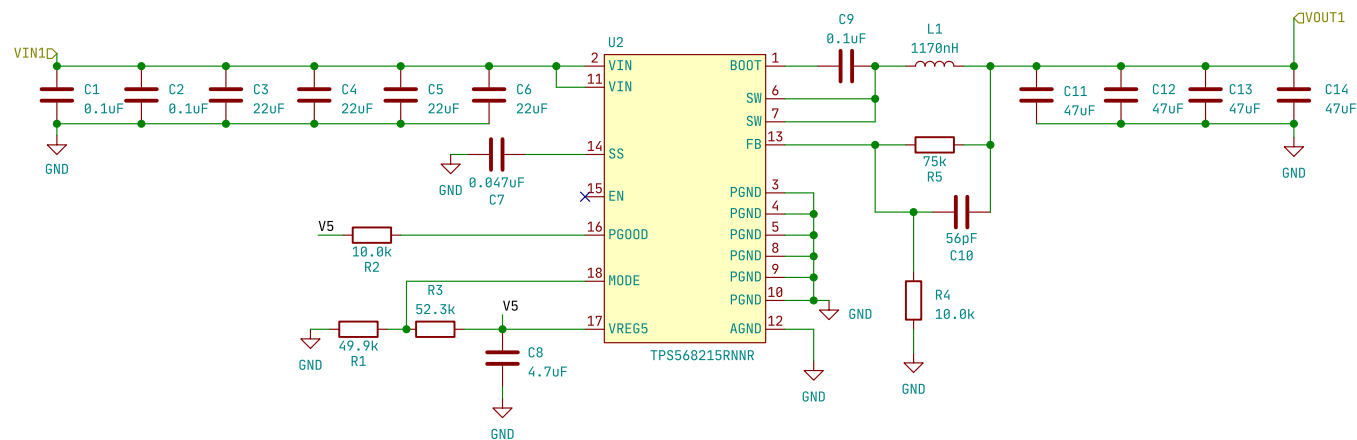
+3V3

File: TPS568215RNNR_2.sch.kicad

Diagram of J4 connector pinout: Pin 1 is +5V, Pin 2 is GND.



Size: A4	Date: 2023-07-15	Rev: V1.1
KiCad E.D.A. kicad 7.99.0-957-g18dd623122		Id: 1/4



MODE: BCM, 0A, 1200kHz

Sheet: /TI Buck Converter 1/
File: TPS568215RNNR_1_sch.kicad_sch

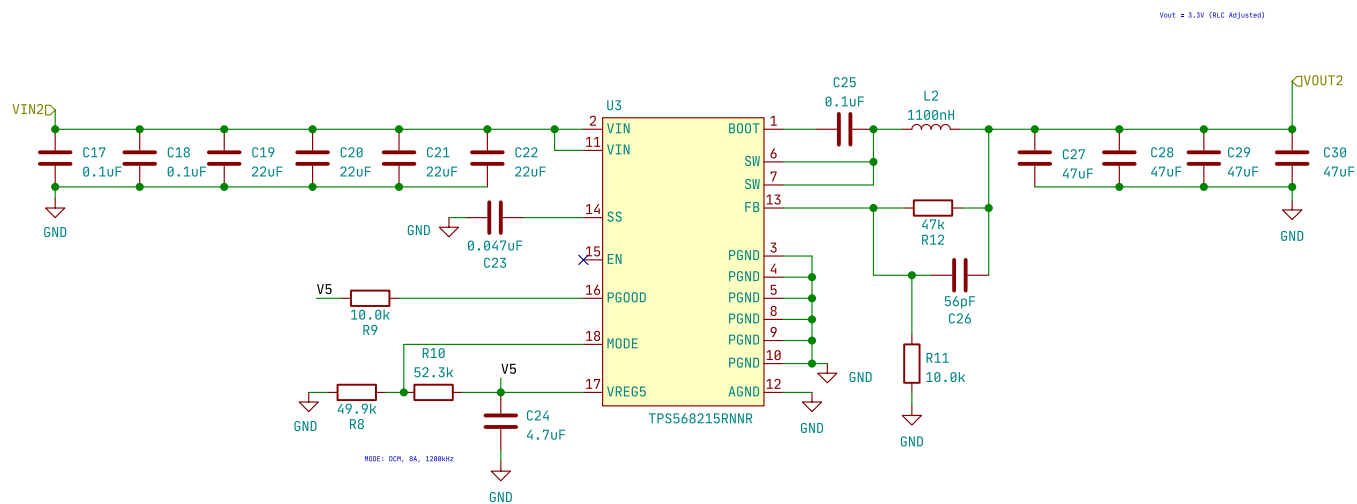
Title:

Size: A4
KiCad E.D.A. kicad 7.99.0-957-g18dd623122

Date:

Rev:

Id: 2/4

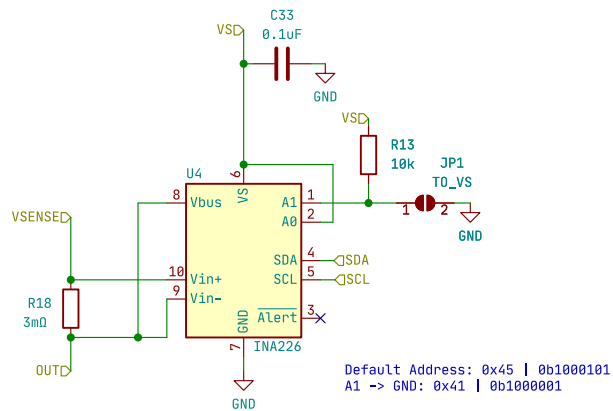


Sheet: /TI Buck Converter 2/
File: TPS568215RNNR_2_sch.kicad_sch

Title:

Size: A4 Date: KiCad E.D.A. kicad 7.99.0-957-g18dd623122

Rev: Id: 3/4



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

Sheet: /TI Current, Power Sensor/
File: INA226.kicad_sch

Title:

Size: A4	Date:	Rev:
KiCad E.D.A.	kicad 7.99.0-957-g18dd623122	Id: 6/4