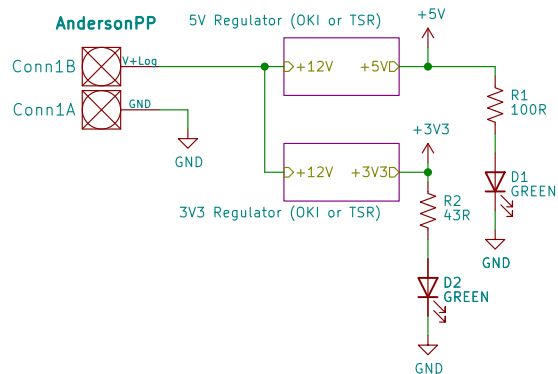
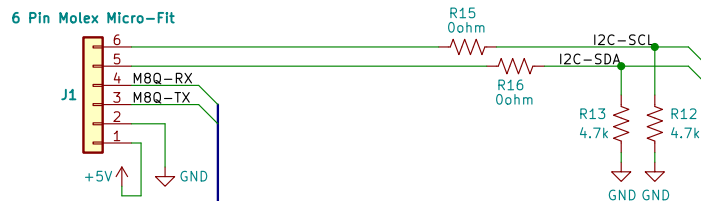


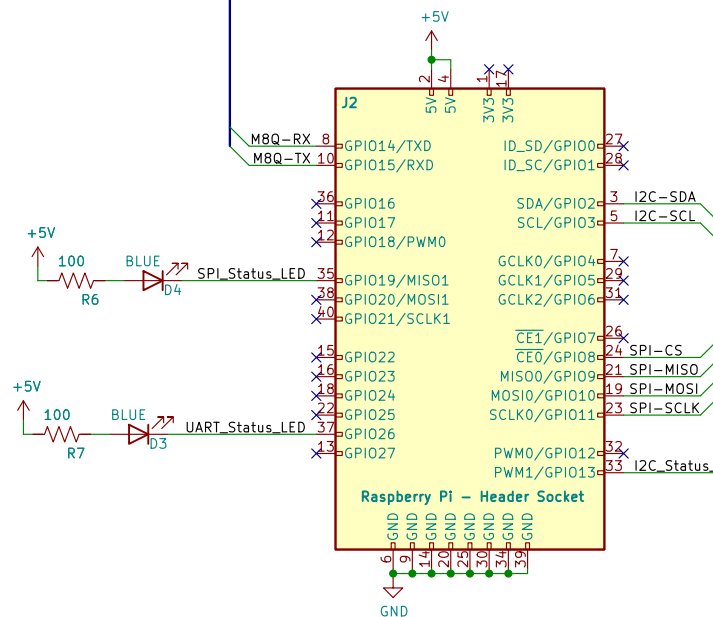
Power



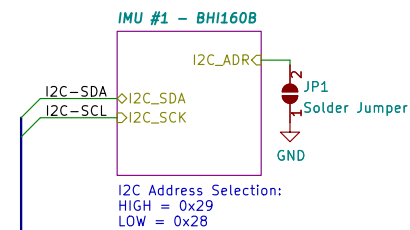
GPS



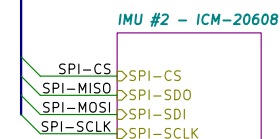
Raspberry Pi Header



IMU #1 - BHI160B



IMU #2 - ICM-20608



Contains Two Accelerometers & Connections To One UART GPS Module
Raspberry Pi Daughter Board

Thomas Francois, Katherine Dunlap, Missouri S&T Mars Rover Design Team

Sheet: /
File: NavBoard_Hardware.kicad_sch

Title: MRDT NavBoard

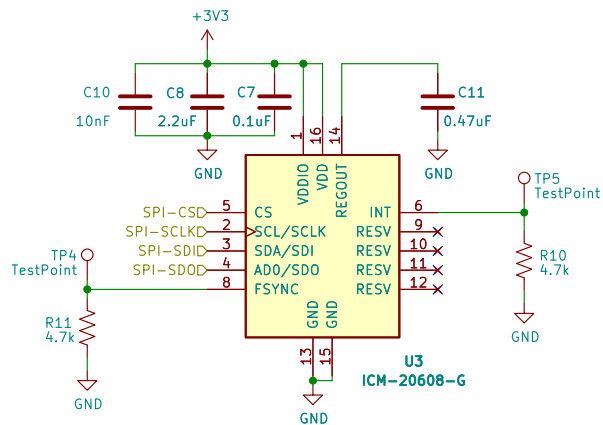
Size: A4 Date: 2022-09-14

KiCad E.D.A. kicad (6.0.7)

Rev: 2, 2023

Id: 1/5

Id: 2/5



Provides Position & Acceleration Data

ICM-20608-G IMU & Supporting Components

Thomas Francois, Katherine Dunlap, Missouri S&T Mars Rover Design Team

Sheet: /IMU #2 - ICM-20608/

File: ICM-20608.kicad_sch

Title: ICM-20608-G Inertial Measurement Unit

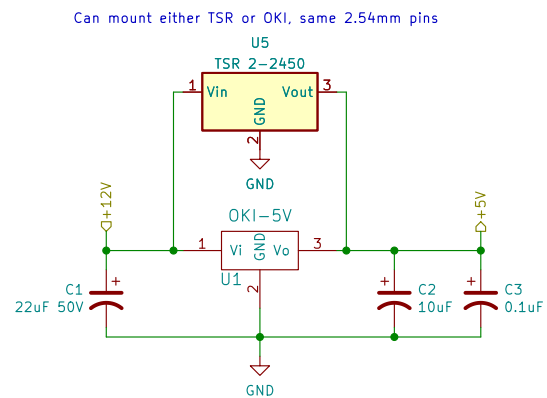
Size: A4

Date: 2022-09-15

Rev: 2, 2023

KiCad E.D.A. kicad (6.0.7)

Id: 3/5



Provides Stable 5V From 12V Input

OKI 5V Voltage Regulator

Thomas Francois, Katherine Dunlap, Missouri S&T Mars Rover Design Team

Sheet: /5V Regulator (OKI or TSR)/

File: OKI-5V.kicad_sch

Title: OKI 5V Voltage Regulator

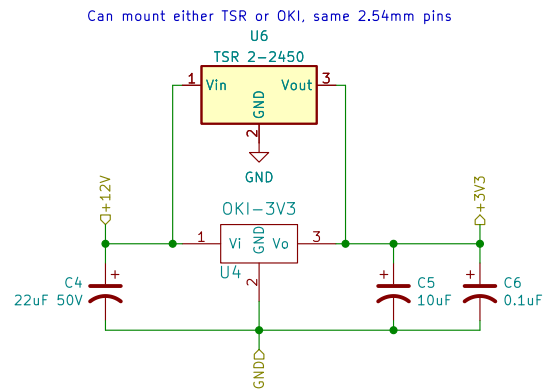
Size: A4

Date:

Rev:

KiCad E.D.A. kicad (6.0.7)

Id: 4/5



Provides Stable 3V3 From 12V

OKI 3V3 Voltage Regulator

Thomas Francois, Katherine Dunlap, Missouri S&T Mars Rover Design Team

Sheet: /3V3 Regulator (OKI or TSR)/

File: OKI-3V3.kicad_sch

Title: OKI 3V3 Voltage Regulator

Size: A4

Date: 2022-09-17

Rev: 2, 2023

KiCad E.D.A. kicad (6.0.7)

Id: 5/5