

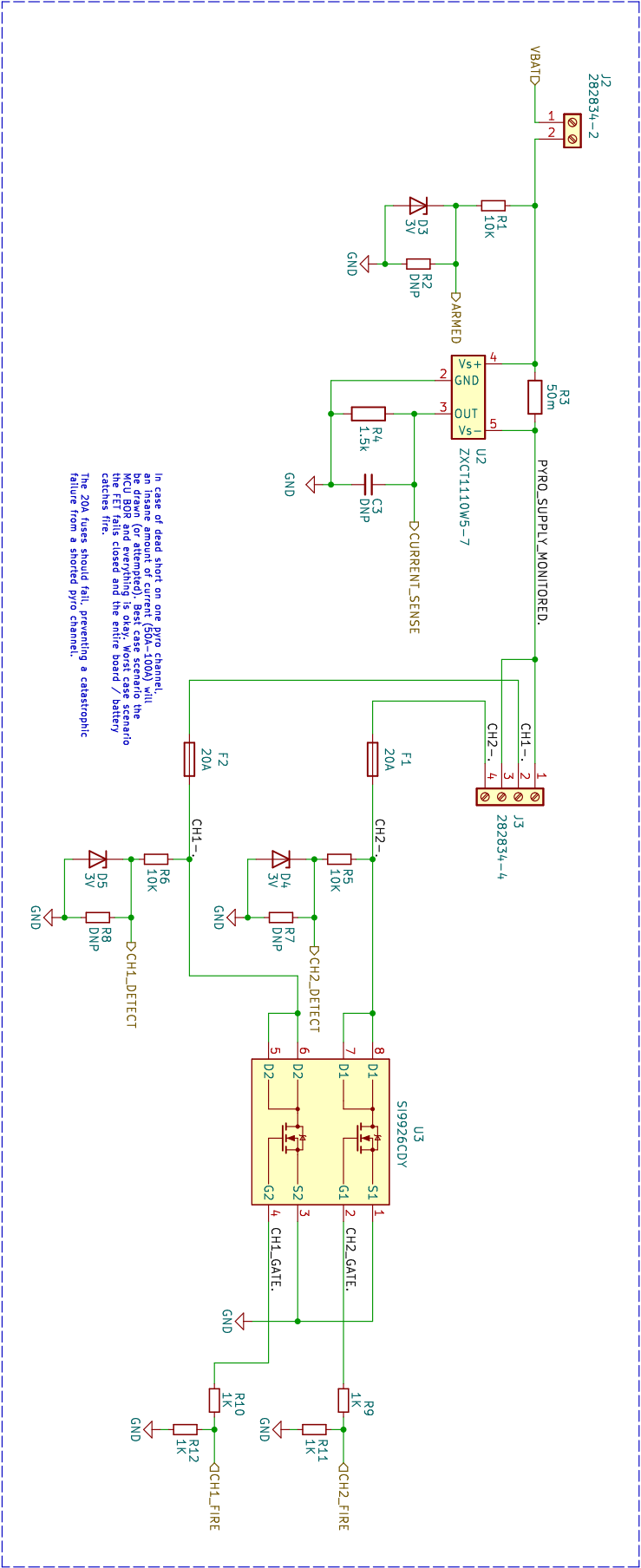
EMATCH:

Example Ematch: <https://electricmatch.com/pyrotechnics/see/6/5/mjg-firewire-initiator> – standard
Resistance: $1 \pm 0.2\Omega$
Recommended Current: 1A
Minimum Recommended Current: 0.75A
Maximum Test Current: 0.04A

FET:

Chosen MOSFET: <https://www.digkey.com/en/products/detail/vishay-siliconix/SI9926CDY-T1-GE3/1978863>
Max Continuous FET Current: 8A
Max Pulse FET Current: 30A
 $3.3V/6s \rightarrow R_{DS(on)} = 17m\Omega$

PYRO CHANNELS AND SENSE



Nat Curtis

Seth Sievers

Missouri S&T Rocket Design Team

Sheet: /Pyro Channels/

File: pyro_channel.kicad_sch

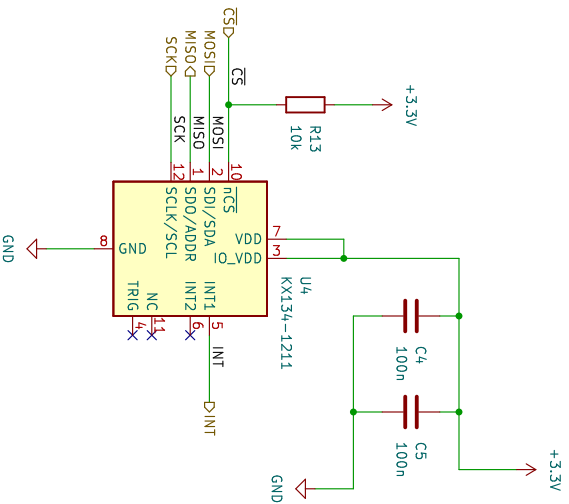
Title: Pyro Channels

Size: USLetter Date: 2023-04-27

KiCad E.D.A. kicad 7.0.6

Rev: 0.1

Id: 2/10



Max Current: 0.145mA

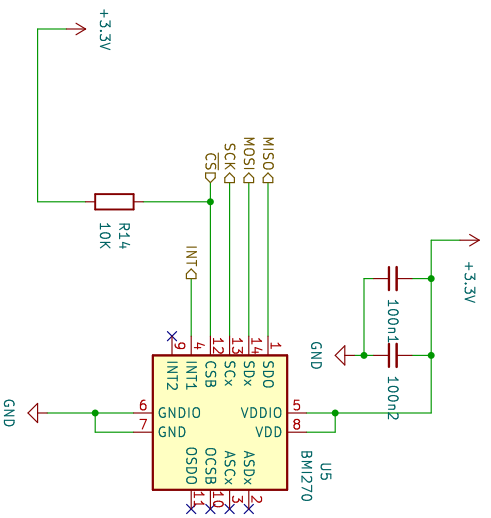
Skye Watson
Missouri S&T Rocket Design Team

Sheet: /High G Accelerometer/
File: kx134-1211.kicad_sch

Title: High G Accelerometer (KX134-1211)

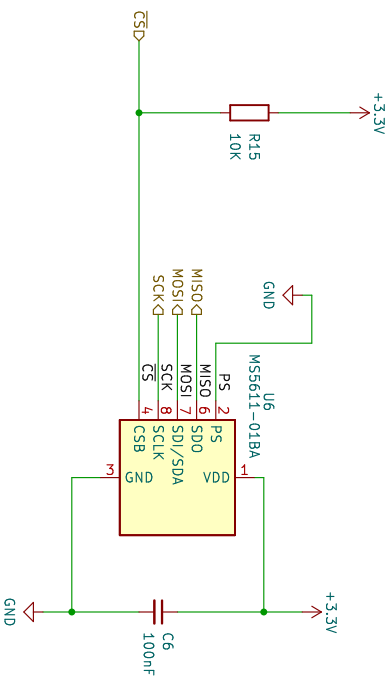
Size: USLetter Date:
Kicad E.D.A. kicad 7.0.6

Rev:
Id: 3/10



Evan Richard
Missouri S&T Rocket Design Team
Sheet: /IMU/
File: bmi-270.kicad_sch
Title: IMU (BMI-270)
Size: USletter Date:
KiCad E.D.A. kicad 7.0.6

Max Current: 0.97mA



Max Current: 1.4 mA

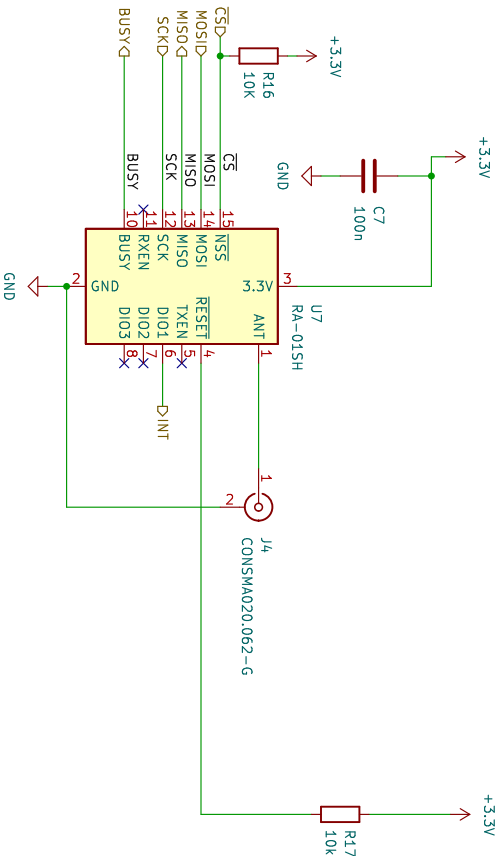
Ben Martin
Missouri S&T Rocket Design Team

Sheet: /Barometer/
File: ms5611.kicad_sch

Title: Barometer (MS5611)

Size: USLetter Date:
Kicad E.D.A. kicad 7.0.6

Rev:
Id: 5/10



Ariel Pilger
Missouri S&T Rocket Design Team

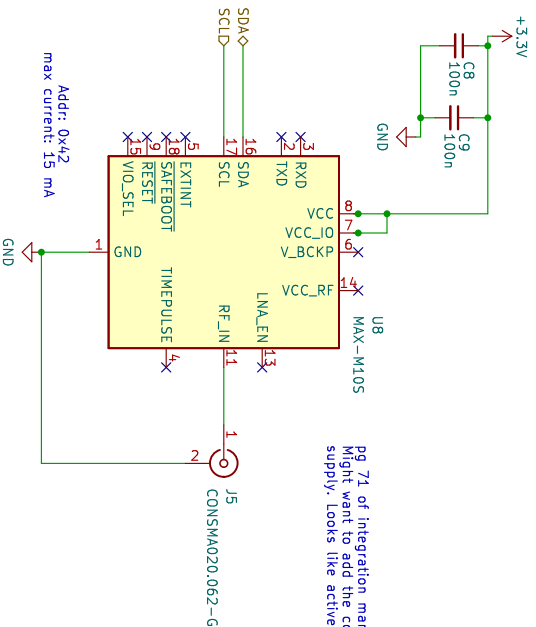
Sheet: /Telemetry Radio/
File: ra-01sh.kicad.sch

Title: Telemetry Radio (RA-01SH)

Size: USLetter Date: 2023-09-17
Kicad E.D.A. kicad 7.0.6

Rev:
Id: 6/10

Maximum Working Current is 140mA



Riley Kyle
Missouri S&T Rocket Design Team

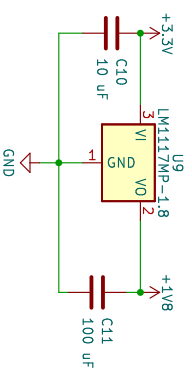
Sheet /GPS/
File: m10s.kicad.sch

Title: GPS (M10S)

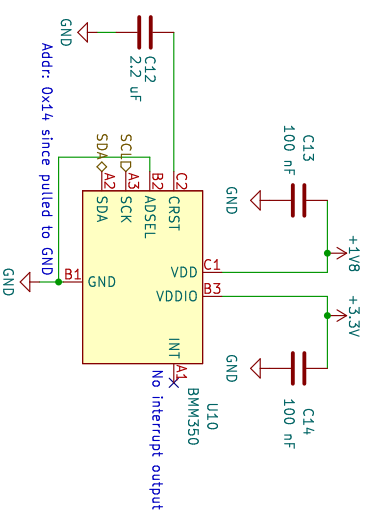
Size: USLetter Date:
Kicad E.D.A. kicad 7.0.6

Rev:
Id: 7/10

LDO Regulator
LDO Datasheet Link



Magnometer Magnometer Link



Max Current: 3.5mA

Sean Duda
Missouri S&T Rocket Design Team

Sheet: /Magnetometer/
File: bmm-350.kicad_sch

Title: Magnetometer (BMM350)

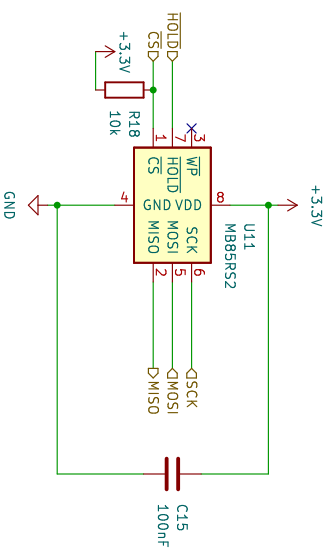
Size: USLetter

Date:

KICad E.D.A. kicad 7.0.6

Rev:

Id: 8/10



Clifford Matteson	
Missouri S&T Rocket Design Team	
Sheet: /Storage/ File: mb85rs2mtapnf.kiccad.sch	
Title: Storage (MB85RSZ)	
Size: USLetter	Date:
KiCad E.D.A. kiccad 7.0.6	
	Rev:
	Id: 9/10

