Reference

Resistor

```
Naming rule 1 (single resistor):
  value + R + size + tolerance
Naming rule 2 (resistor network):
  value + R + size + tolerance + count + circuit type
```

```
Example 1:                    Example 2:
  62D7R2F                       220R2J4X
  62D7R => 62.7 Ohm             220R => 220 Ohm
  2 => 0402                     2 => 0402
  F => ±1% tolerance            J => ±5% tolerance
                                4X => 4 isolated resistors
```

Tolerance	Size	Circuit type
B: ±0.1%	1: 0201	X: isolated
C: ±0.25%	2: 0402	B: bussed
D: ±0.5%	3: 0603	
F: ±1%	5: 0805	
G: ±2%	6: 1206	
J: ±5%	0: 1210	
K: ±10%		
M: ±20%		

Capacitor

```
Naming rule 1 (ceramic caps):
  type + value + voltage rating + size + tolerance + dielectric
Naming rule 2 (electrolytic caps):
  type + value + voltage rating + size + tolerance + ESR
```

```
Example 1:                    Example 2:
  SCD1U10V2MX                   ST330U6VD3M9
  SC => SMT Ceramic             ST => SMT Tantalum
  D1U => 0.1uF                  330U => 330uF
  10V => 10V voltage rating     6V => 6.3V voltage rating
  2 => 0402                     D3 => D3 package
  M => ±20% tolerance           M => ±20% tolerance
  X => X7R/X5R                  9 => 9 mOhm ESR
```

Tolerance	Size	Type	Dielectric
B: ±0.1pF	1: 0201	SC: SMT Ceramic	X: X5R/X7R
C: ±0.25pF	2: 0402	ST: SMT Tantalum	N: NP0/C0G
D: ±0.5pF	3: 0603	SA: SMT Aluminium Electrolytic	
F: ±1%	5: 0805	SP: SMT Aluminium Polymer	
G: ±2%	6: 1206		
J: ±5%	0: 1210		
K: ±10%			
M: ±20%			

DY : No stuff

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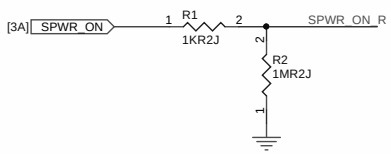

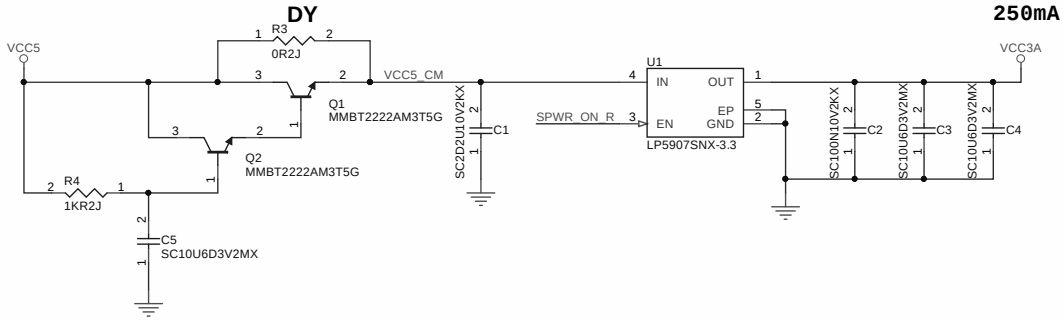

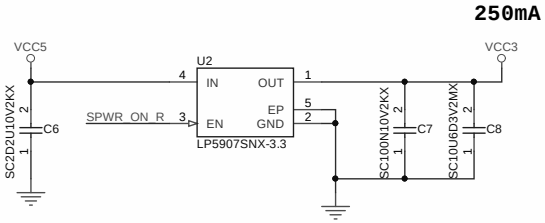

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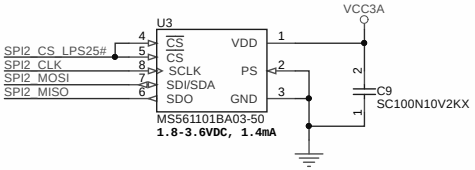
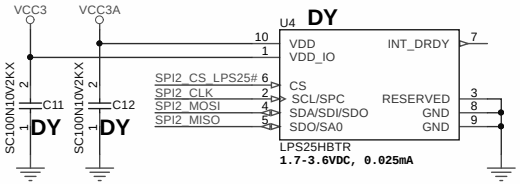
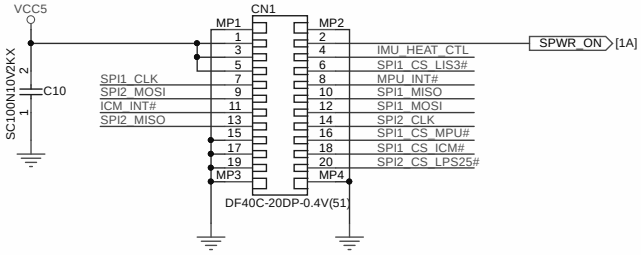
Barometer



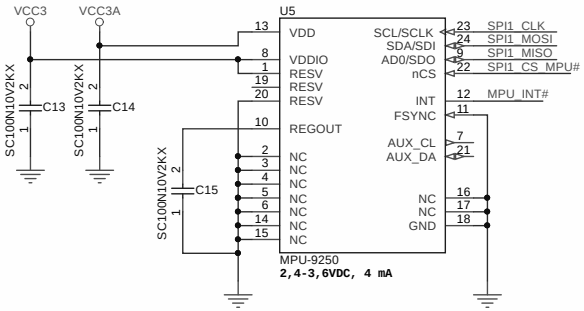
DY



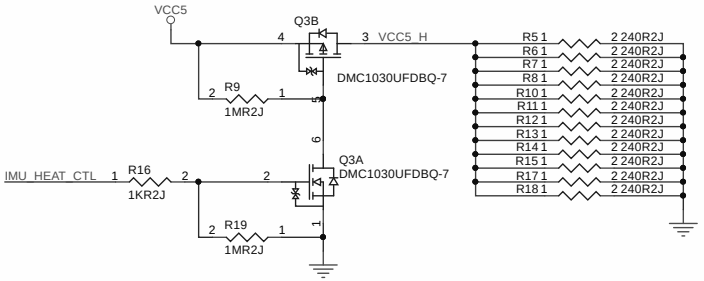
FMU conn



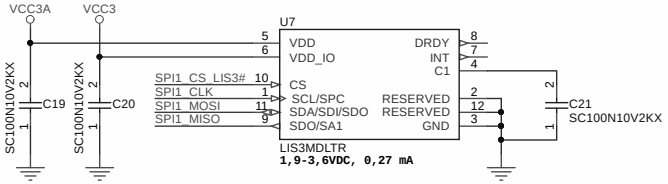
Gyro+Accel+Compass



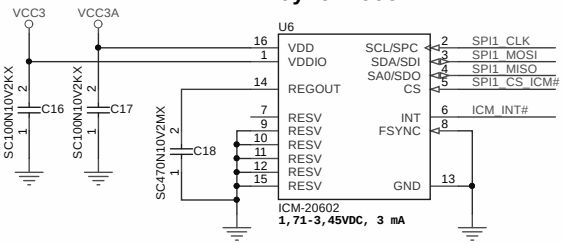
Heating



Compass



Gyro+Accel



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KAME FMU+IMU is a special-purpose microcontroller and sensor module, which is building on the work done by the following open-hardware projects:

- Pixhawk FMUv1 by @pixhawk: https://github.com/pixhawk/Hardware/blob/master/README.md, licensed under cc-by-sa-3.0
- Cube by @ProfiCNC: https://github.com/proficnc/The-Cube/tree/master/FMU, licensed under cc-by-sa-3.0
- Pixracer by @AUAV-OpenSource: https://github.com/AUAV-OpenSource/FMUv4-PixRacer, licensed under cc-by-sa-3.0

KAME FMU+IMU is an open hardware design that is an evolution of the PixHawk, Pixracer, and Cube autopilot designs, licensed under the Creative Commons Attribution-ShareAlike 3.0 Unported (CC BY-SA 3.0) license.

Pull requests for fixes and relevant enhancements are welcome.

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