Notes:
* Rather than the ESD protection, RF caps should be connected to ground to prevent signal distortion and RF noise from seeping into the analog section. These can always be removed.

* The data rate will be around 600-1000 samples per second, because of the cutoff frequency of the filter. This is not ideal, but it was done to keep the circuit simple.

* The 1.2V reference can be used as an ADC input (but is not necessary).