

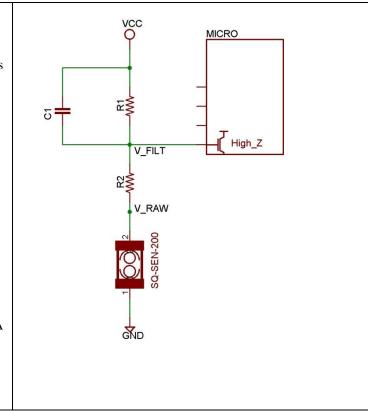
APPLICATION NOTE

APPLICATION CIRCUITS

SQ-SEN-200 APPLICATION CIRCUITS

FLEXIBLE FILTER CIRCUIT

- Best choice for a simple, flexible interface circuit. Provides opportunity for filtering if needed. For most applications, this is the recommended circuit.
- For low power applications a good starting value for R1 is 4.7M. R2 can be 100K 1M to depending on the desired output swing.
- Using R1 of 4.7M and R2 of 1M, the current consumption will be about 0.5 uA (0.0005 mA) for a Vcc of 3.0 V.
- Higher values for R1 and R2 can be used to further limit the current, but board impedances must be considered if higher resistance is used.
- Experiment with C1 values for various filtering options. Generally 10 100 pF is sufficient for general signal edge clean up. A larger C1 value i.e. 1000 pF will turn the digital output into an analog average value. A low leakage capacitor should be used.
- Note: It is recommended to use a 10x probe for circuit debugging. If a 1x probe is used, the series resistance will cause a large voltage droop.

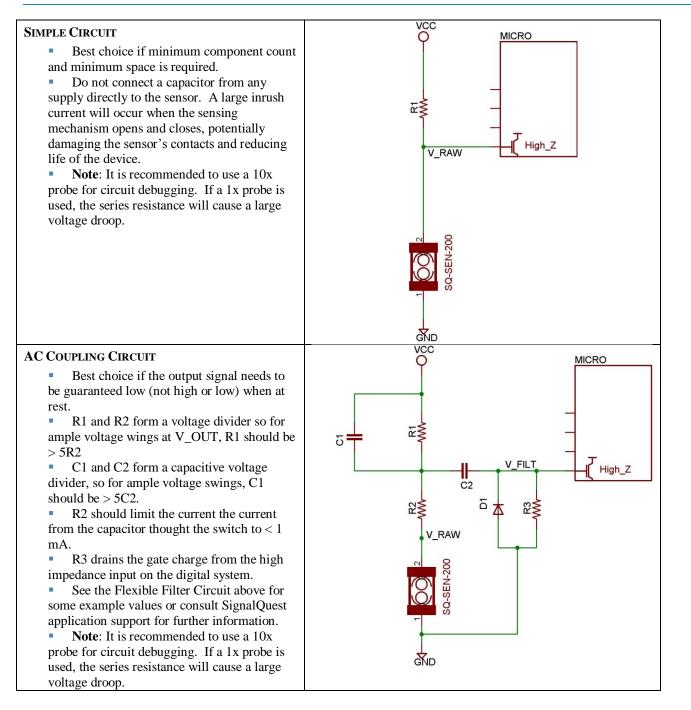


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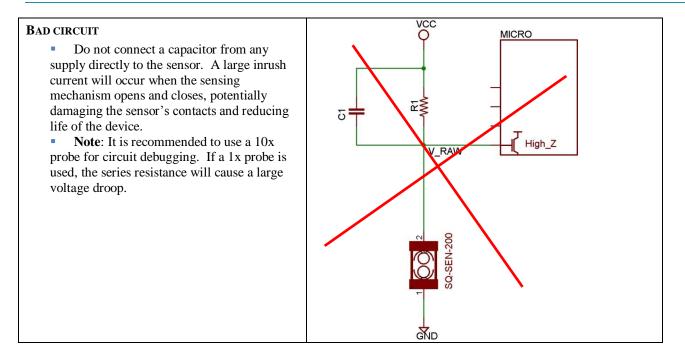


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