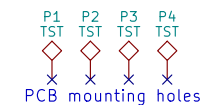
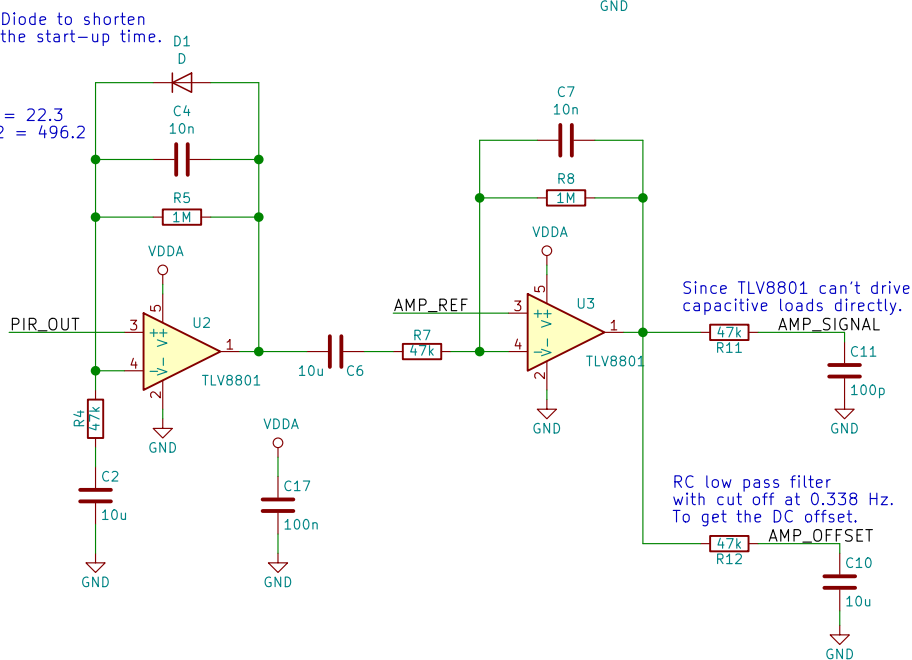


Diode to shorten the start-up time.

Stage gain = $(1 + 1M/47k) = 22.3$
 Total gain = $(1 + 1M/47k)^2 = 496.2$

Stage low 3 dB cut-off
 $= 1/(2 \cdot \pi \cdot 47k \cdot 10u) = 0.338 \text{ Hz}$
 Total low 3 dB cut-off
 $= 0.338 \cdot \sqrt{1.414 - 1} = 0.218 \text{ Hz}$

Stage high 3 dB cut-off
 $= 1/(2 \cdot \pi \cdot 1M \cdot 10n) = 15.9 \text{ Hz}$
 Total high 3 dB cut-off
 $= 15.9 \cdot \sqrt{1.414 - 1} = 10.2 \text{ Hz}$



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File: sense_rev2.sch	
Title: Appiko Detector	
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