Requirement:
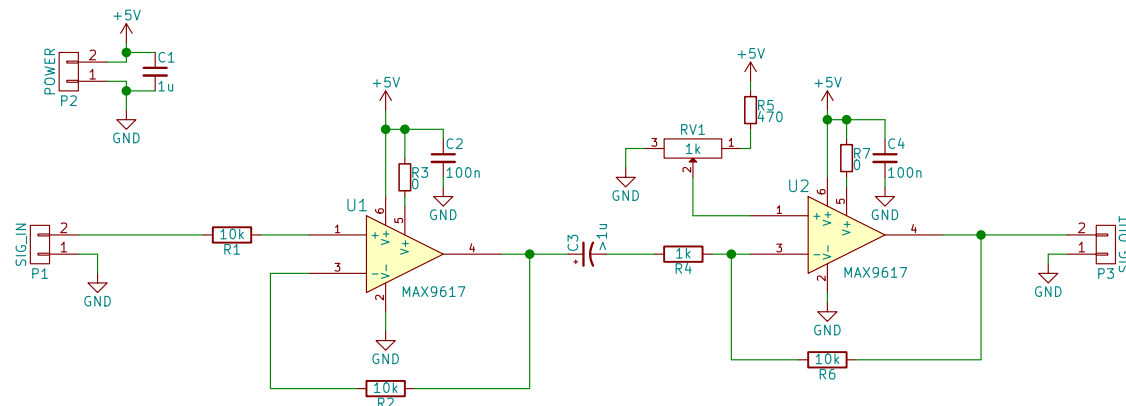The input to the HX1 module needs a swing from 0 to 5V
in order to achive the ±5kHz deviation (typical specs
from the datasheet).

Problem:
The output of the DS8500 is 500mVpp (typ) with a 1.5V
of DC offset. The maximum load at the ouput is 30kOHM
(by specs in the datasheet). This needs to be analogly
processed in order to fit the signal level required by the
HX1 module

Solution:
Do some analog processing!

+5V
POWER
C1
1u
P2
GND

+5V
R3
0
C2
100n
GND
U1
+5V
SIG_IN
P1
GND
10k
R1
MAX9617
GND
10k
R2
C3
>1u

+5V
R5
470
RV1
1k
GND
+5V
R7
0
C4
100n
GND
U2
1k
R4
MAX9617
GND
10k
R6
GND
SIG_OUT
P3

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File: analog-test-board.sch
Title: Analog test board
Size: A4   Date: 2016-05-04   Rev: 1.0
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