DETECTOR Capacitor / 2015-04-26
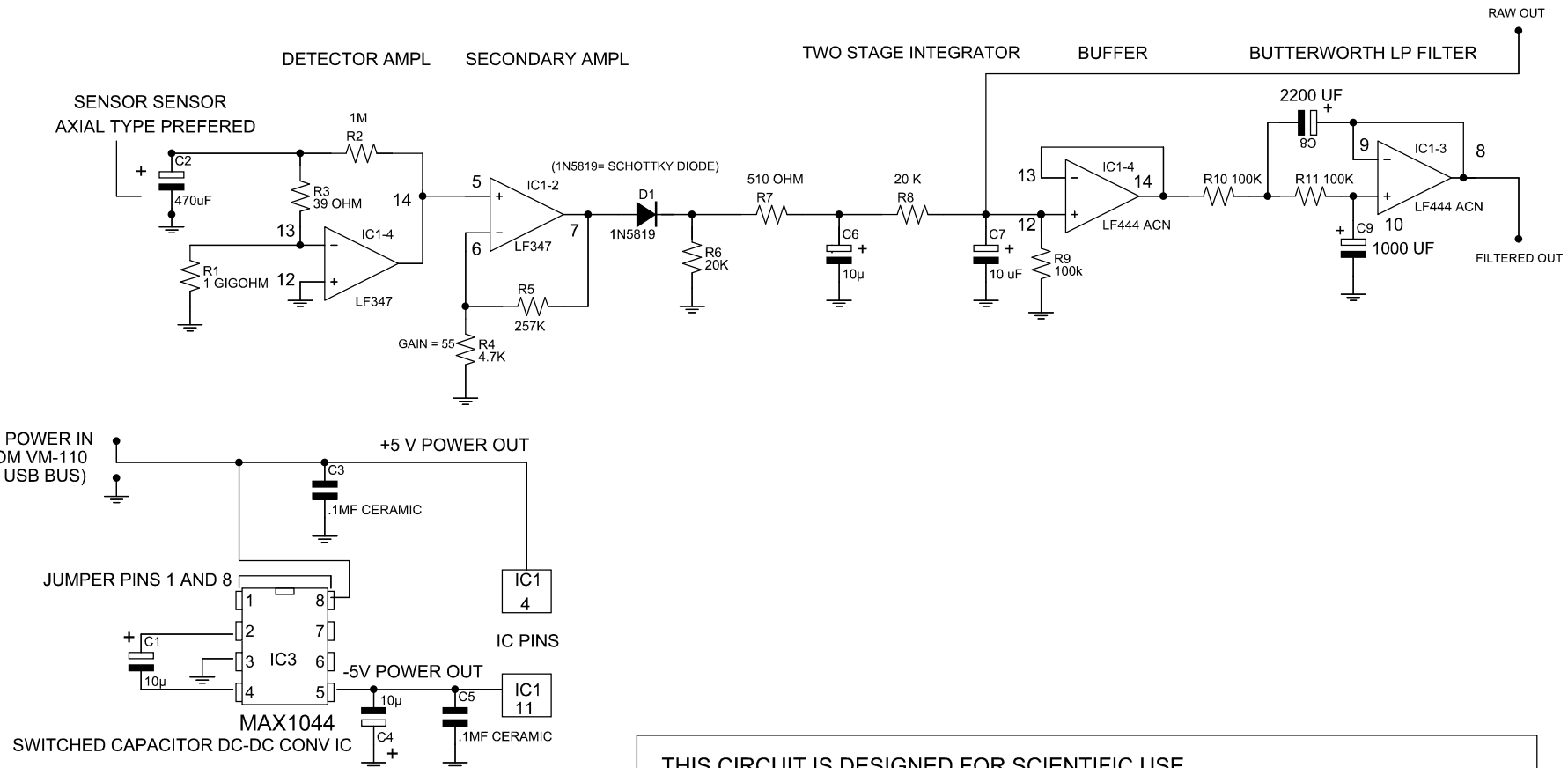
# For Experimental Detection of ULF Activity

WITH HARDWARE BUTTERWORTH FILTER FOR EXTRACTION OF LOWER FREQ WAVES

RAW OUT

DETECTOR AMPL    SECONDARY AMPL    TWO STAGE INTEGRATOR    BUFFER    BUTTERWORTH LP FILTER

2200 UF

SENSOR SENSOR
AXIAL TYPE PREFERED

1M
R2

C2
470uF

R3
39 OHM    14

R1
1 GIGOHM    12    13    IC1-4    LF347

5    IC1-2    7
+
6    −    LF347

(1N5819= SCHOTTKY DIODE)

D1
1N5819

510 OHM
R7

20 K
R8

R6
20K

C6
10µ

C7
10 uF

R9
100k

13    −    IC1-4    14
LF444 ACN

12

R10 100K    R11 100K

C8

9    −    IC1-3    8
LF444 ACN

C9    10
1000 UF

FILTERED OUT

GAIN = 55    R4
4.7K

R5
257K

+5 V POWER IN
FROM VM-110
( PC USB BUS)

+5 V POWER OUT

C3
.1MF CERAMIC

JUMPER PINS 1 AND 8

1    8
2    7
3    IC3    6
4    5

+    C1
10µ

MAX1044

SWITCHED CAPACITOR DC-DC CONV IC

IC1
4

IC PINS

-5V POWER OUT

C5
10µ    .1MF CERAMIC

C4

IC1
11

THIS CIRCUIT IS DESIGNED FOR SCIENTIFIC USE
IN THE DETECTION OF ULTRA LOW FREQUENCY SCALAR ACTIVITY


IT IS DESIGNED TO BE INTERFACED WITH A VELLEMAN VM-110 / K8055
A TO D AND PC USB INTERFACE BOARD OR OTHER A TO D UNITS AND TO USE F
3.0  CHART RECORDER SOFTWARE BY ABACOM OR OTHER SOFTWARE CHART
THAT WILL WORK WITH THE A TO D CONVERTER USED.


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