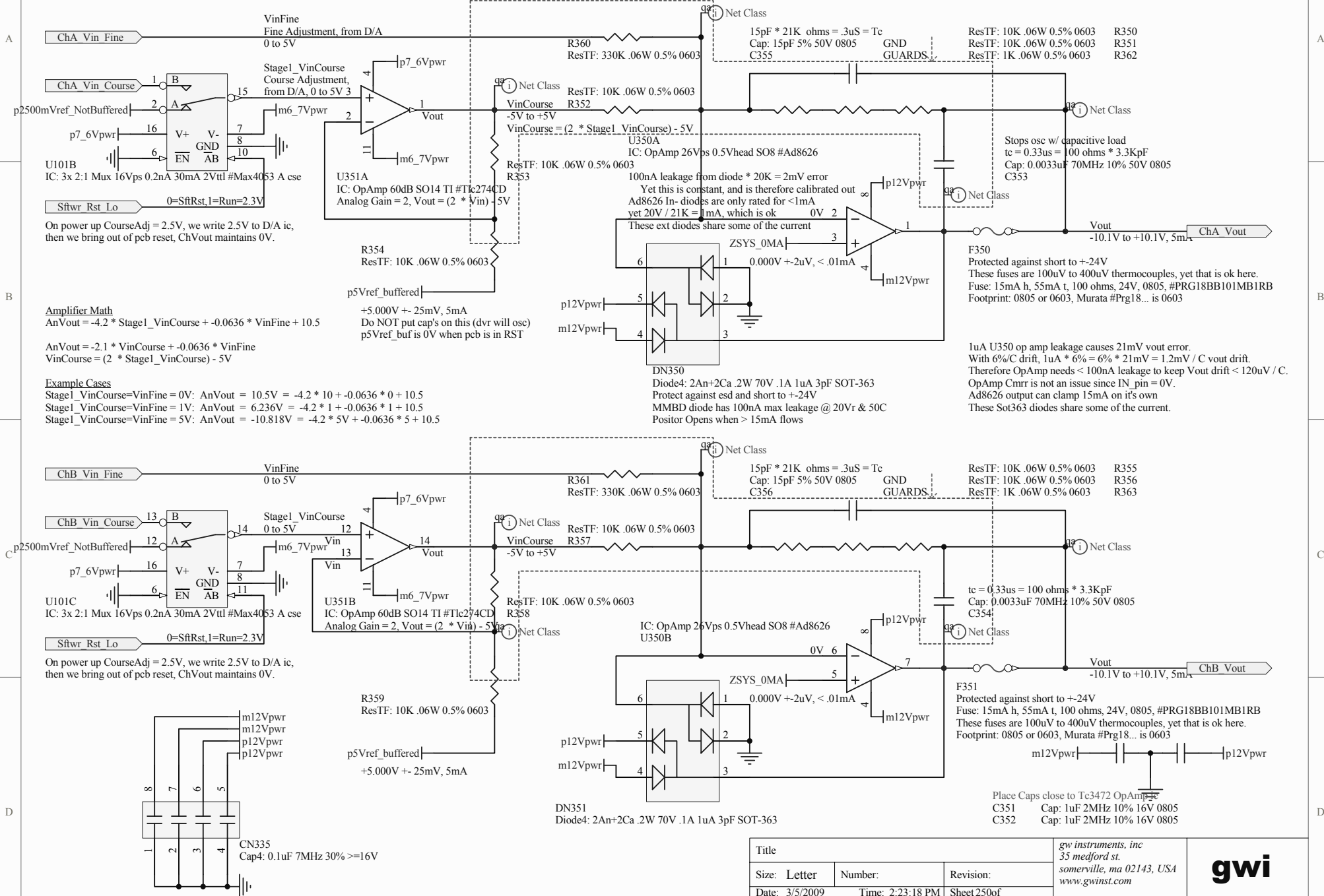


Buffer Amplifier, Vin = 0 to 5V, Vout = -10V to +10V, 5mA, Protected against short to +24V

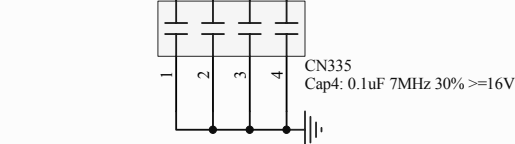


Amplifier Math
 $AnVout = -4.2 * Stage1_VinCourse + -0.0636 * VinFine + 10.5$

$AnVout = -2.1 * VinCourse + -0.0636 * VinFine$
 $VinCourse = (2 * Stage1_VinCourse) - 5V$

Example Cases
 Stage1_VinCourse=VinFine=0V: $AnVout = 10.5V = -4.2 * 10 + -0.0636 * 0 + 10.5$
 Stage1_VinCourse=VinFine=1V: $AnVout = 6.236V = -4.2 * 1 + -0.0636 * 1 + 10.5$
 Stage1_VinCourse=VinFine=5V: $AnVout = -10.818V = -4.2 * 5V + -0.0636 * 5 + 10.5$

On power up CourseAdj = 2.5V, we write 2.5V to D/A ic, then we bring out of pcb reset, ChVout maintains 0V.



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