

$a = 42.2K$
 $b = 10.0K$
 $out = 0.1916 * Vin$
 $5.138vin = 2.90vout$
 $ain = 78.28 \mu A/A$
 $A_{out} = 0.078289mA$
 $1A = 0.007828mA$
 $007828mA * 374K = 2.928v$

$ain = 27.9 \mu A/A$
 $07A_{out} = 0.1415mA$
 $1415mA * 20.5K = 2.90v$

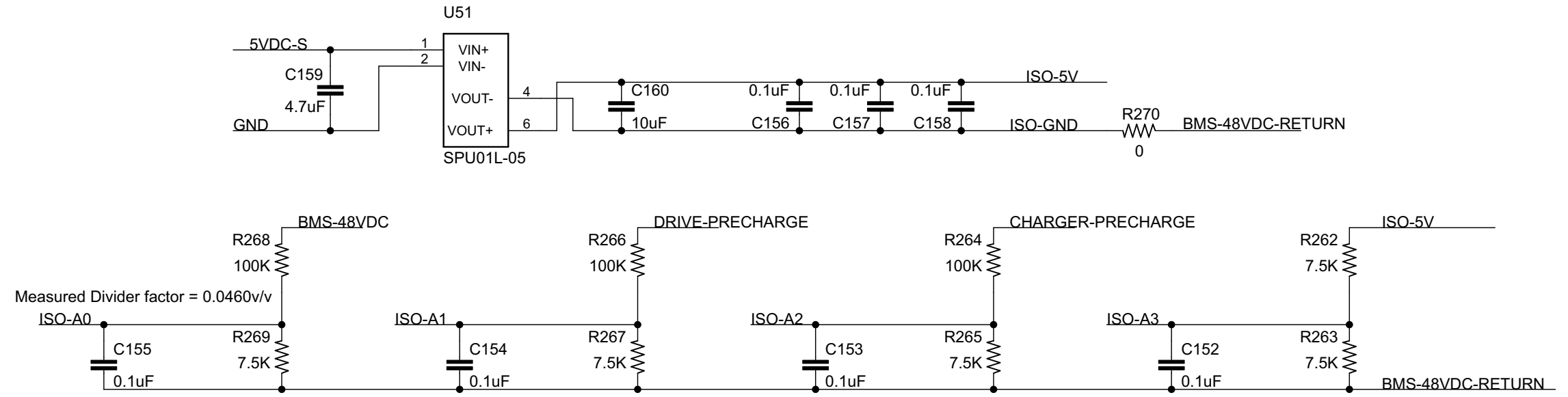
$9 \mu A/A$
 $= 0.0568mA$
 $* 51.1K = 2.90v$

$28 \mu A/A$
 $= 0.007754mA$
 $iA * 374K = 2.9v$

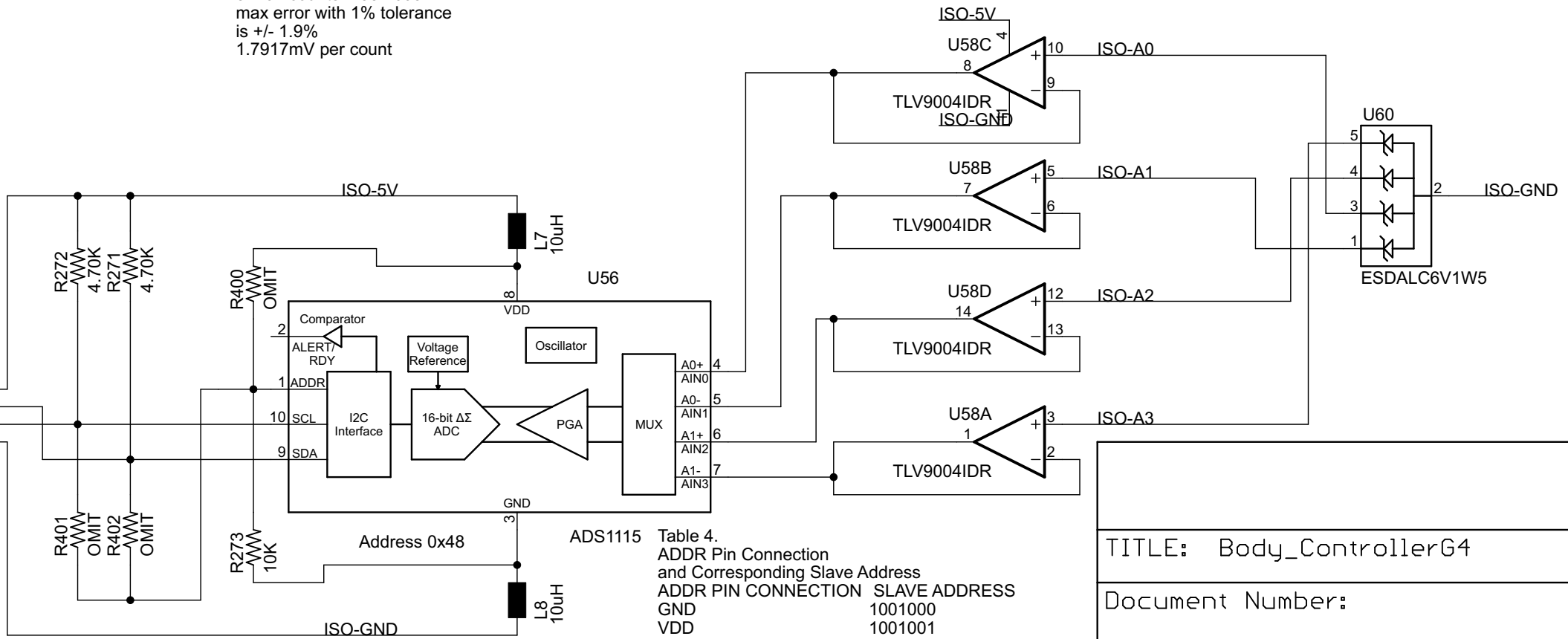
$<$
 $<$
 $916 * Vin$
 $= 3.25vout$

$28 \mu A/A$
 $:= 0.0327mA$
 $* 88.7K = 2.90v$

U57
 ISO1540-SO
 I2C pull-ups are near CPU pins
 5v and 3.3v
 ADS1115 ADDR Pin definitions
 GND = 1001000
 VCC = 1001001
 SDA = 1001010
 SCL = 1001011



Divider factor = 0.0698v/v
 $4.095v = 58.7093v$
 $32767 \text{ counts} = 58.7093v$
 max error with 1% tolerance
 is +/- 1.9%
 $1.7917mV \text{ per count}$



ADS1115 Table 4.
ADDR Pin Connection and Corresponding Slave Address

ADDR PIN CONNECTION	SLAVE ADDRESS
GND	1001000
VDD	1001001
SDA	1001010
SCL	1001011

TITLE: Body_ControllerG4

Document Number:

Date: not saved!

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