Connector to the I2C controller & Power Supply (USB)

Analog power supplies 5V & -5V

Analog reference signals 2.5V & 5V

Digital power supply 5V

Title: Kit Alzheimer Dual AD5933 Desc.: I2C controller Power Supplies

Designed by: O. Casals  Document No: 0002  Revision: 2.0

Approved by: J.D. Prades  Date: 2014-07-07  Sheet 1 of 8
Switch of the I2C bus

Digital control of the sample MUX, of the range resistance MUX and of the cut-off frequency of the LTC 1564IG filter

Digital control of the MUX of the internal calibration resistance and capacitors

Department of electronics, University of Barcelona
C/ Martí i Franquès 1,
08027 Barcelona (Spain)
(+34) 93 403 48 04

Unversitat de Barcelona

Title: Kit Alzheimer Dual AD5933
Desc.: digital control clock

Designed by: O.Casals
Document No: 0002
Revision: 2.0

Approved by: J.D. Prades
Date: 2014-07-07
Sheet 2 of 8
Conditioning of the excitation signal

AD5933_Dual_measure

Department of electronics, University of Barcelona
C/ Martí i Franquès 1,
08027 Barcelona (Spain)
(+34) 93 403 48 04

Universitat de Barcelona

Title: Kit Alzheimer Dual AD5933 Desc.: Dual measure system with AD5933
Designed by: O. Casals Document No: 0002 Revision: 2.0
Approved by: J.D. Prades Date: 2014-07-07 Sheet 3 of 8
Kit Alzheimer Dual AD5933 Equivalent circuit of 3D-IDEA sensor

O. Casals
J.D. Prades

Department of electronics, University of Barcelona
C/ Martí i Franquès 1, 08027 Barcelona (Spain)
(+34) 93 403 48 04

Desc.: Equivalent circuit of 3D-IDEA sensor

Designed by: O. Casals  Document No: 0002  Revision: 2.0
Approved by: J.D. Prades  Date: 2014-07-07  Sheet 8 of 8