SOLID Humidity Sensor

Table of Contents

version history

version : 20161117 V1.0 initial version of schematic and board layout
not yet for production (
Last saved date : 17 Nov 2016 15:20:35

version nov 2016 V0.1 version without layout. not documented

introduction

In this folder you find information for the assemblage the humidity sensor circuit for the SOLID scientific project.

The PCB is created by the Eagle software form CADSoft (Autodesk)

This project is related to the SOLID temperature sensor.

Dimension of the board is ~ 11.5 x 16.5 mm

On the board there is a voltage regulator but normally is not used and the resistor R1 of 0 ohm has to be mounted.
In that case the max voltage is 3.6 V . But nominal 3.3 V.
In case the LDO is used the max voltage is 5.5 V. But the I2C lines are still between 3.3 and 0 V.

There are no pull ups on the I2C line. Standard is 100 kHz I2C bus.

The address is BE read , BF write

For more details see the data sheet of the humidity sensor in the doc directory

The connector used is of the family micro-match 6 sockets . The corresponding wire pin connector is 7-215083-6 (Farnell[1] order code 149068)

1 Mouser is in general cheaper in big quantities

If only 4 wires are connected it is also possible to place the the 7-188275-4 (Farnell 3784710) , 4 pins socket . Same as used for the SiPm board.

7-215083-4 (Farnell 149032)

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Design sources / info

- SOLID_HSENSOR_sch.pdf SOLID_HSENSOR_brd.pdf pdf files of the design.
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