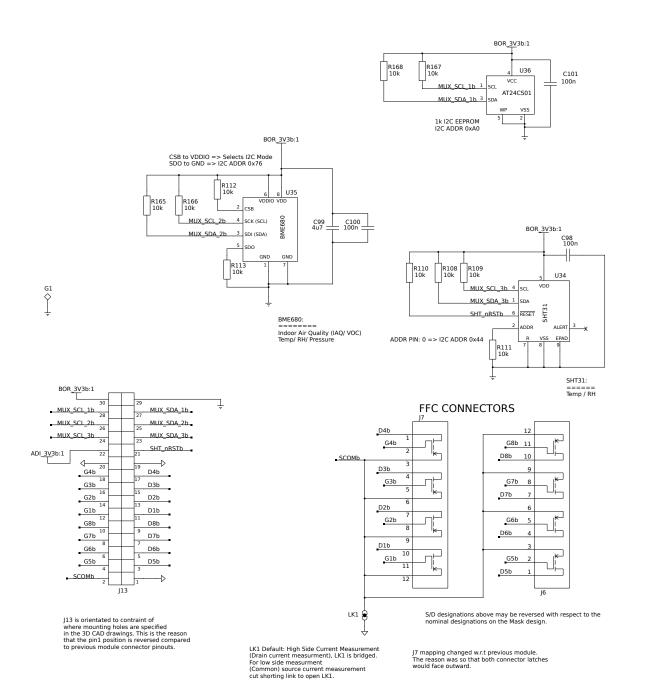
## GAS SENSOR CARTRIDGE TYPE B



V0\_0: First Prototype

V0\_1: No electrical changes. PCB Layout: Adjust position of J23.

Type A: For the PACE trial Jan 2020 the sensor module had widely seperated GS FET sensor connecting traces. These all ran on one the top of the board far from the digital traces connecting to the ICs. The chamber was created by the IId of a Hammond 1550P enclosure. The edge connector was 2.54 mm oitch.

The edge connector was 2.54 mm pitch. The Board silkscreen reads "Gas\_Sensors\_8CH\_V0\_0 Sensor Module 2019". This will be retrospectively refered to as a Type A external cartridge design

Type B: This is the external 3D printed design (MAY 2020) which requires a set of 3 interconnecting boards. Because the chamber is vertical off the board the design and the connectors of the 3D design require fine the traces that are not well seperated. The edge connector pitch has reduced from 2.54 mm to 0.8 mm. There is a risk of reduced signal to noise and increased leakage currents. This will be evaluated once the 3D cartridges samples are available to determine if the offests and signal to noise are still within acceptable limits.

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