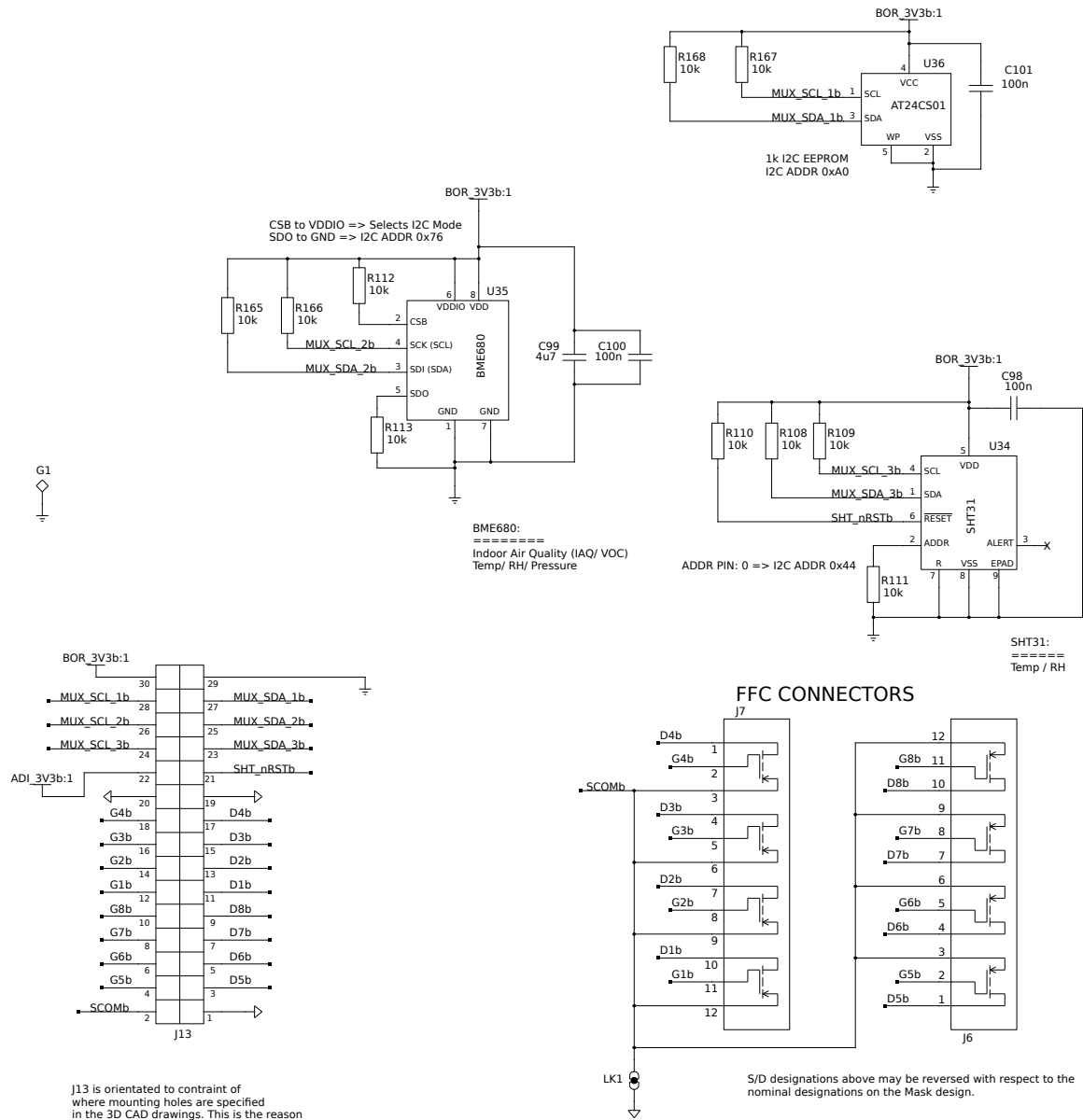


GAS SENSOR CARTRIDGE TYPE B



V0_0: First Prototype

V0_1: No electrical changes.
PCB Layout: Adjust position of J23.

V0_2: Fixed J6-1 Square Pad shorting to a track on an inner layer.
Making this a round pin is the only change.

Type A: For the PACE trial Jan 2020 the sensor module had widely separated GS FET sensor connecting traces. These all ran on one of the top of the board far from the digital traces connecting to the ICs. The chamber was created by the lid of a Hammond 1550P enclosure. The edge connector was 2.54 mm pitch. The Board silkscreen reads "Gas_Sensors_8CH_V0_0 Sensor Module 2019". This will be retrospectively referred 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 separated. 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 offsets and signal to noise are still within acceptable limits.

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