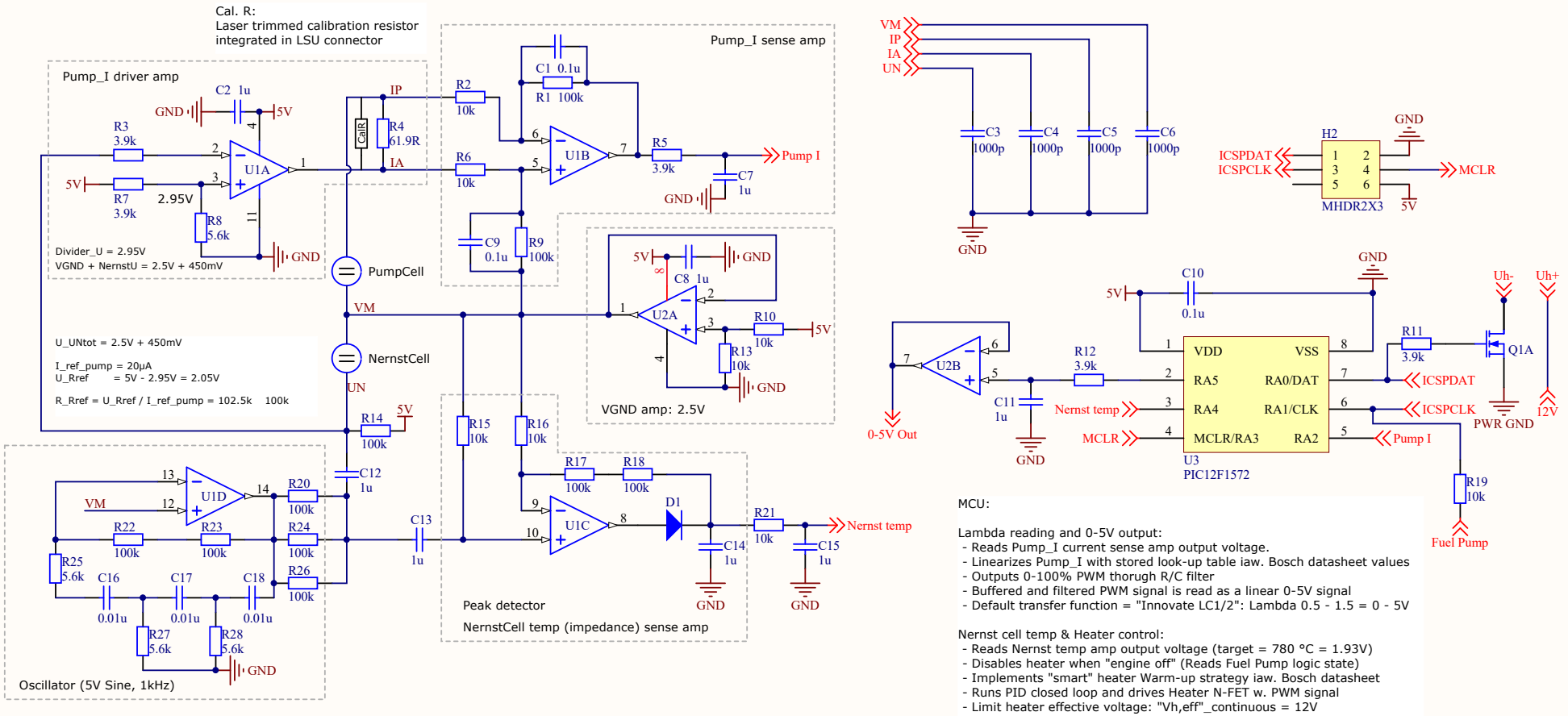

MCU:

Lambda reading and 0-5V output:
- Reads Pump_I current sense amp output voltage.
- Linearizes Pump_I with stored look-up table iaw. Bosch datasheet values
- Outputs 0-100% PWM thorugh R/C filter
- Buffered and filtered PWM signal is read as a linear 0-5V signal
- Default transfer function = "Innovate LC1/2": Lambda 0.5 - 1.5 = 0 - 5V

Nernst cell temp & Heater control:
- Reads Nernst temp amp output voltage (target = 780 °C = 1.93V)
- Disables heater when "engine off" (Reads Fuel Pump logic state)
- Implements "smart" heater Warm-up strategy iaw. Bosch datasheet
- Runs PID closed loop and drives Heater N-FET w. PWM signal
- Limit heater effective voltage: "Vh,eff"_continuous = 12V

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