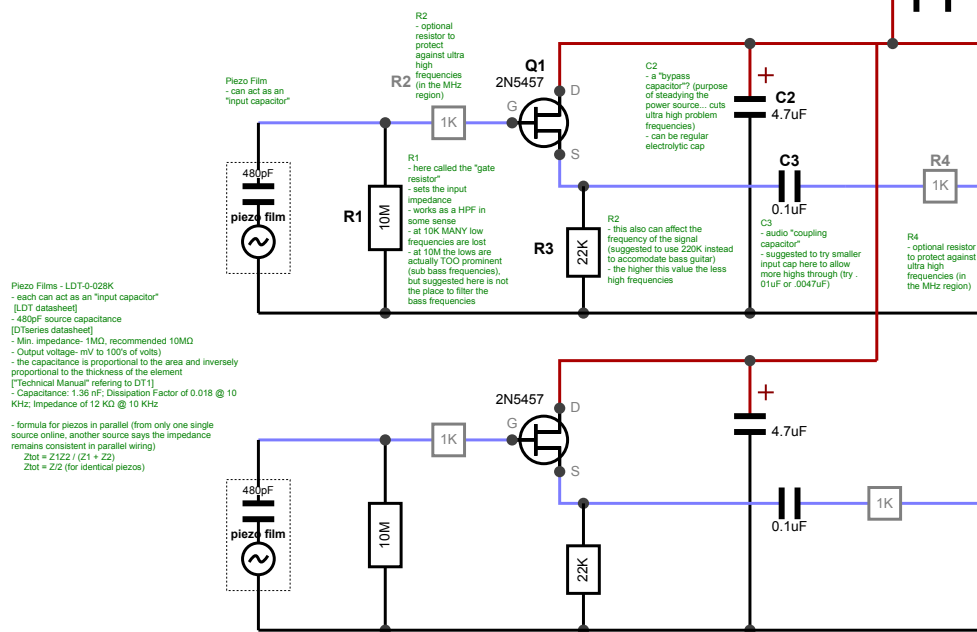


Combination Buffer and Gain Circuit - rvsn3

red = power supply
blue = "audio"
black = ground



CircuitA - Buffer Circuit

CircuitB - Gain Circuit
(in "non-inverting mode")

UA22 soundcard

- (from spec sheet)
- input impedance
- INPUT 1, 2 (XLR type): 4 kΩ (balanced)
- INPUT 1, 2 (1/4-inch TRS phone type): 34 kΩ (balanced)
- INPUT 1 jack supports high impedance

Firewire1814 soundcard

- (from spec sheet)
- Line Inputs
- nominal input level -10dBV
- max input level +2.1dBV, typical
- input impedance 10K Ohms, typical
- Mic/Inst. Inputs 1-2 (Balanced; at Minimum Gain)
- max input level -3.8dBu, typical
- input impedance
- inst in 500K Ohms, typical
- mic in 1.8K Ohms, typical
- Adjustable Gain > 40dB