

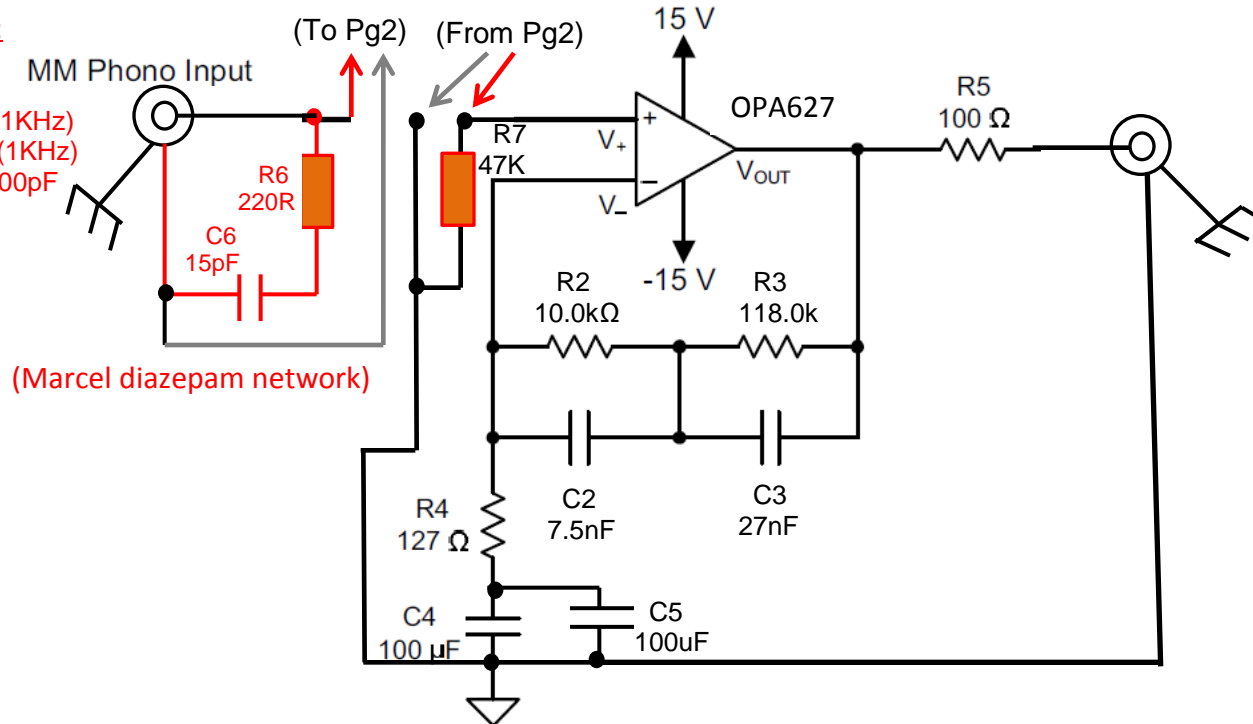
Pole #1, 50Hz:  $R3 \times C3 = 3180\mu S$   
 Zero #1, 500Hz:  $(R2 \parallel R3) \times (C2 + C3) = 318\mu S$   
 Pole #2, 2,122Hz:  $R2 \times C2 = 75\mu S$

Av: 20Hz = 60dB (x1000); 1000Hz = 40dB (x100); 2,122Hz = 20dB (x10)

Basic circuit taken from TI OPA1656  
 datasheet, pg19.

“AT-540ML” MM cartridge:

- > 4mV output @1KHz
- > DC resistance 800Ω
- > Coil impedance 2700Ω (1KHz)
- > Coil inductance 460mH (1KHz)
- > Load capacitance 200-300pF



- > RIAA EQ: C2 = 2x 2.5% selected polystyrene = 7.5nF; C3 = 2x 5% selected Wima MKP10 = 27nF; R2-7 = 0.1% or <1% metal film.
- > Hi-pass warp/room slosh filter R4, C4, C5 = ~6Hz Nichicon “Muse” bipolar.
- > Polystyrene caps have centered leads, clear ends and appear to be extended-foil axials.
- > TT + 3ft cable capacitance = 156pF (cart to RCA total)

