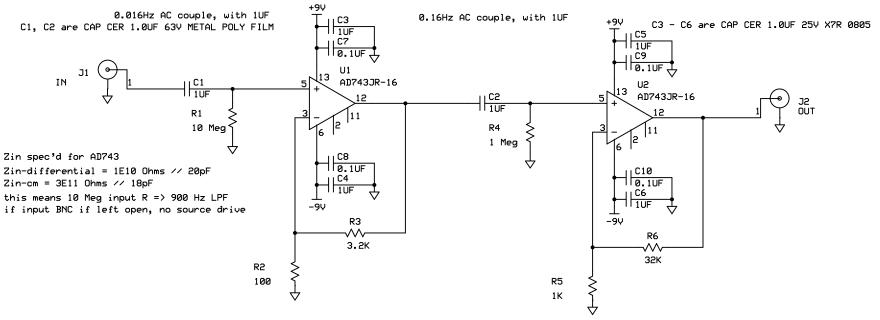
each stage has x32 gain

total gain is x1000

BW approx 500kHz BW is lower when driven by high Z source, due to Cin of U1 approx 19pF

STAGE 1

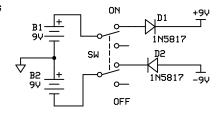
STAGE 2



since U1 has a low output impedance the LPF due to the Cin of U2 is at a higher frequ than that of the U1 stage when input is open

the amplifier is AC coupled, no need to null one or both op-amps; with x30 gain, 1mV max spec offset is 60mV total with 0.25mVos typ, x30 + x30 gain = 15mV, no trim

each AD743 uses about 8 to 10mA with 2 of them, assume 20mA total supply drain Panasonic specs a 9V battery to last about 10 to 20 hours



based on Motchenbacher, Connelly design from Low-Noise Electronic System Design, ISBN 0-471-57742-1

Actinica www.actinica.com		
Low Noise x1000 amplifier, model 101		
mike beach mike@actinica.com	Rev 0.9	D 1 - 0 1
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