Stage 1 calculations

Ultrasonic frequency range: 945 KHz – 1005 KHz

Assume input signal is 1 mV, typical of several other ultrasonic flow meters.

Let R1 = 1200 ohms, R2 = 80 000 ohms. Gain = 66.67. Total gain = 4444.67

Let C1 = 150 pF, C2 = 1.8 pF

Same values for the second stage.

Two stage filter for a roll off gain of -40dB/dec on both corners.