



Hydrophone/Microphone DC Eliminator, 4-ch

J1 through J4 are BNC inputs from hydrophones/microphones. J5 through J8 are BNC-terminated coaxial cables leading to recorder.

All capacitors are rated 25V except where noted

All resistors are 1/8 or 1/4W, 5% except where noted.

$$A_v \approx -10 \text{ (20dB)}$$

$$110\text{dB supply rejection}$$

$$60\text{dB channel separation}$$

$$[A_v \approx \sim (R3+R3R2+R2)/(R2R1)]$$

$$\text{Where } R2 = 2V_{BE}/100I_{Q2}$$

$$\approx 1.2/50 \times 10^{-6}$$

$$\approx 24\text{K Ohm}$$

$$R3 = (V_{cc}/2.4 - 1)R2$$

R1 is varied for gain.

Flat 30Hz to 75KHz
3dB from < 10Hz
to > 200KHz

12VDC operation
< 20mA current draw

5mV max noise

Banana Jack (battery)