

SCRATCH FILTER

Q. I need a scratch filter to attenuate the surface noise on my old 78-rpm records.—H.A. Dobson, Orangeburg, SC.

A. Try the circuit shown here. It is a continuously variable passive filter with op amp buffers at the input and output. The

filter rolls off at 18 dB/octave and will provide cutoff frequencies between 6000 and 15,000 Hz. The setting of the 25,000-ohm potentiometer determines the exact cutoff frequency. A dual op amp such as a 747 can be used. Two 9-volt batteries can be used as a power source. You can insert the filter between the system's preamp and power amplifier or in the preamp's tape monitor loop.

