



This receiver will detect lightning flashes up to 300 miles away. It uses one of our VLF lightning detection antennas, part numbers starting with 7SR, for example 7SR-10KHz. Cloud-to-ground lightning flash radio emissions are centered around 10 KHz. Power the receiver with a 9-volt battery.

Each "pop" sound from the speaker is an individual cloud-to-ground lightning flash. Severe storms produce hundreds of "pop" sounds per minute.

This receiver is for use with 7SR antennas below 20 KHz. For use above 20 KHz see other antenna spec sheets.

PARTS LIST:

Q1, Q2: 2N3904 NPN Transistors.

D1: 1N34A or 1N60 germanium diode. (Using a silicon diode will give less sensitivity).

R1: 1 Meg Ohms Resistor.

R2, R3, R5, R6: 100 K-ohms Resistor.

R4: 2 K-ohms Resistor. Antenna connects across this resistor. Red antenna wire goes to "E" of Q1.

R7: 10 Meg ohms Resistor.

C1, C3, C4: 0.1 uF. Polyester Film Capacitor.

C2: 0.01 uF. Polyester Film Capacitor.

Audio Output: Connect to an audio amplifier having 1 millivolt input sensitivity (microphone level signal). Radio Shack mini Audio Amp CAT NO: 277-1008C works very well with this receiver, for example.