



This receiver will detect lightning flashes up to 75 miles away. It uses one of our LF lightning detection antennas, part numbers starting with 7SR, for example 7SR-350KHz. This receiver is for use with 7SR antennas between 50 KHz – 500 KHz. Power the receiver with a 9-volt battery.

Detection up to 75 miles away is possible when used with our 350 KHz antenna 7SR-350KHz. Severe thunderstorms emit continuous radio static at this frequency caused by numerous in-cloud and cloud-to-cloud flashes. These are the “crash” sounds. The “pop” sounds are individual cloud-to-ground flashes

PARTS LIST:

Q1, Q2: 2N3904 NPN Transistors.

D1: 1N4148 or 1N914 silicon diode. (Do not use a germanium type).

R1: 1 Meg Ohm Resistor.

R2, R5: 33 K-ohms Resistor.

R3: 100 K-ohms Resistor.

R4: 1 K-ohm Resistor. Antenna connects across this resistor. Red antenna wire goes to “E” of Q1.

C1: 0.1 uF. Polyester Film Capacitor.

C2: 1000 pF Capacitor.

C3: 1 uF. Metal 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.