

# MODEL 206 COMMUNICATIONS MICROPHONE

## Hand Held Ceramic Communications Microphone

### SPECIFICATIONS

**Frequency Response Characteristics:** Smooth and uniform from 200 to 4,000 cps. Free from undesirable peaks. Effective response range, ideal for clear, natural voice reproduction.

**Polar Pattern:** Omnidirectional

**Voltage Sensitivity:** 2.5 millivolts per microbar at end of attached cable across 1 to 5 megohms at 1,000 cps. (This is equivalent to -52 db below 1 volt per microbar.)

**Cable:** Attached 3 conductor (1 conductor shielded) retractable cable that extends to 5 feet (1.5 m).

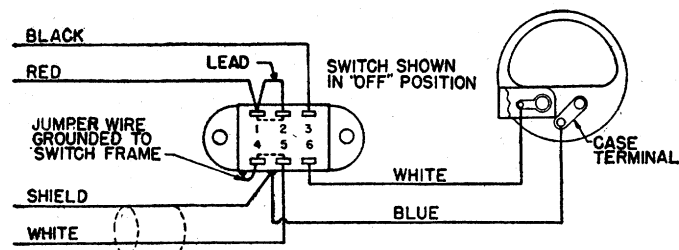
**Finish:** Gray high impact plastic case.

**Dimensions:** See Figure B

**Weight:** Net weight: 8 ounces (227 grams)  
Packaged weight: 13 ounces (369 grams)

**General:** The Model 206 Communications microphone is a pressure-actuated diaphragm type ceramic microphone. This microphone was designed for clear, crisp, natural voice reproduction of high intelligibility. The Model 206 is relatively immune to adverse temperature and humidity conditions; and will operate in temperatures to 160° F. This microphone is high impedance, has ideal voice response and omnidirectional polar pickup characteristics.

The microphone fits naturally and comfortably in the palm of the hand, retaining a natural feel when the weather varies from hot to cold. The sturdy high impact case is light and compact and takes minimum space in portable equipment.



CIRCUIT	RELAY CIRCUIT	MICROPHONE CIRCUIT
AS SUPPLIED	NORMALLY OPEN*	NORMALLY CLOSED (SHORTED)
CUT JUMPER WIRE	NORMALLY OPEN*	NORMALLY OPEN
CUT JUMPER WIRE, ADD JUMPER WIRE TO SHORT TERMINALS #5 AND #6	NORMALLY OPEN*	NORMALLY CLOSED (NON SHORTED)

\*FOR NORMALLY CLOSED RELAY CIRCUIT, MOVE LEAD FROM TERMINAL #1 TO #3  
FOR JOHNSON VIKING - MOVE LEAD TO SHORT PINS #2 AND #4

INTERNAL CONNECTIONS

FIGURE A



The Model 206 Microphone is equipped with a heavy duty push-to-talk (non-locking) switch, designed to withstand severe operating conditions and constant usage.

**Applications:** The Model 206 Microphone is especially recommended for Citizens Band use and all other applications where a rugged hand microphone is required. The frequency response is designed to produce a clear, natural, voice response.

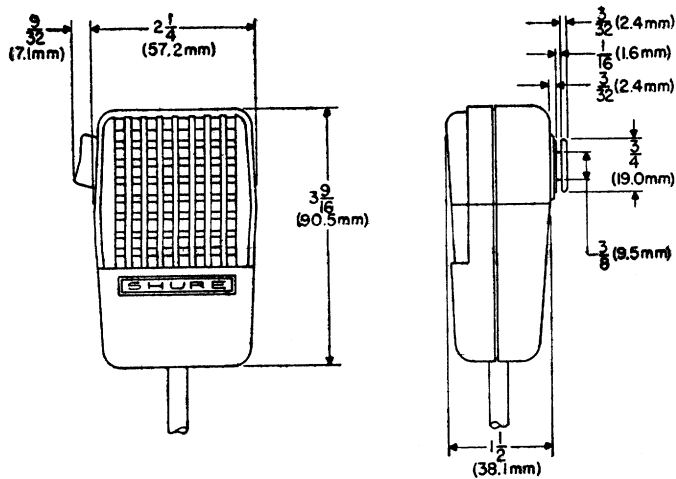
**Operation:** No polarizing voltage is required for ceramic microphones.

Ceramic microphones may be seriously damaged if accidentally connected to loud speaker or power supply outlets carrying high voltage. Check your connections carefully.

The Model 206 as supplied, has a switch which is a momentary contact (non-locking) type. For use, grasp microphone in the palm of the hand and activate push-to-talk switch with fingers.

**Installation:** The microphone is provided with a bracket for permanent placement with the associated equipment. The bracket has mounting holes with clearance for No. 8 screws.

**Connections:** The internal switch and cable connections of the Model 206 Microphone are shown in Figure A. The switching circuit of the Model 206 (See Fig. A) makes it a universal replacement type C. B. microphone ideal for use with any Citizens Band equipment designed to utilize a ceramic microphone. Using the microphone as supplied, the push-to-talk switch operates both the microphone circuit and an external relay or control circuit. Connect red and



OVERALL DIMENSIONS

FIGURE B

black leads of microphone cable to the proper input or terminals controlling the relay or control circuit of the equipment. (See Equipment Manual of the transmitter.)

Connect the white or "hot" lead (shielded conductor) of the microphone cable to the proper high impedance input of the equipment, or to the capacitor feeding the grid of first tube in the amplifier, across a load resistance of 5 megohms. Input resistance as low as 1 megohm may be used, if necessary, to reduce low frequency response. The shield should be connected to the amplifier chassis or ground. Careful grounding of the cable shield is recommended. Added length of connecting cable will be accompanied by a decrease in output level. There is no frequency discrimination introduced by the capacity of the shielded conductor in the cable, regardless of length.

**Guarantee:** Each microphone is guaranteed to be free from electrical and mechanical defects for a period of one year from date of shipment from the factory, provided all instructions are complied with fully. In case of damage, return the microphone to the factory for repair.