



Electro-Voice®

a MARK IV company

Models PL68, PL68S, PL68SH Dynamic Cardioid Microphones

SPECIFICATIONS

Element:

Dynamic

Frequency Response:

60-13,000 Hz

Polar Pattern:

Cardioid

Impedance,

PL68 and PL68S:

300 ohms balanced

PL68SH:

Hi-Z balanced

Output Level,

PL68 and PL68S:

-57 dB (0 dB = 1 mW/10 dynes/cm²)

PL68SH:

-56 dB (0 dB = 1 V/dyne/cm²)

Switch,

PL68:

None

PL68S and PL68SH:

On/off

Case:

Zinc die cast

Pop Filter:

Acoustifoam™

Finish:

Snow grey and charcoal

Dimensions:

157.2 mm (6.19 in.) long,

50.2 mm (1.97 in.) largest diameter

Weight:

226.8 g (8 oz)

Accessories Included:

323 stand clamp

Vinyl carrying pouch

Optional Accessories:

376 windscreen

379 color-coded windscreens

PLC-25X 25-ft microphone cable with
A3F and A3M connectors

PLC-25P 25-ft microphone cable with

¼-in. phone plug and A3F connectors

502CP to-high-Z transformer with A3F

connector on input and ¼-in. phone

plug on equipment end

DESCRIPTIONS AND APPLICATIONS

The Electro-Voice PL68, PL68S and PL68SH feature high output levels while providing a smooth frequency response and excellent gain-before-feedback characteristics. The models are Single-D cardioid microphones which emphasize low frequencies when used close up. The PL68S is for low-impedance use, while the PL68SH is a high-impedance microphone. Perfect for the exacting needs of high-quality sound reinforcement, public address, and other applications, the microphones are ruggedly designed and attractively styled. The microphones use the broadcast standard three-pin type connector.

The head design provides exceptionally wide, linear response for high gain-before-feedback in sound reinforcement applications. The head subassembly is user replaceable. As part of this assembly, an effective shock absorber isolates transducer assembly from mechanical noises. An internal Acoustifoam™ filter allows close talking without excessive "P-popping" and prevents dirt and magnetic particles from accumulating on the diaphragm.

Utilizing the Locking Feature:

To lock the switch in the on position, first turn the switch on. Next, using a sharp object such as a nail file or small screwdriver, slide the lock to a position behind the switch actuator (see Figure 6).

Using the Variable Low-Frequency Response:

The PL68, PL68S and PL68SH low-frequency responses vary with the distance from the sound source to the microphone as shown in the response curve (Figure 2). Maximum bass response is produced in close-up use with the microphone ¼-inch from the sound source (Figure 2A). Minimum bass response is experienced at distances greater than 24 inches. (Figure 2C).

Useful special effects can be created by an imaginative application of the variable low-frequency response:

1. By working closer to the microphone, the human voice will sound more robust, although intelligibility may be adversely affected.
2. Feedback in a public address system is sustained by reflection of sound into the microphone. For all microphones, as the artist moves closer, the level of his voice (at the microphone) increases and the microphone's signal to the amplifier is increased. For a constant volume of sound from the system, the amplifier gain setting must be proportionately reduced. This results in a reduction of the system's sensitivity to reflected sound, hence a reduction of the tendency to feedback.

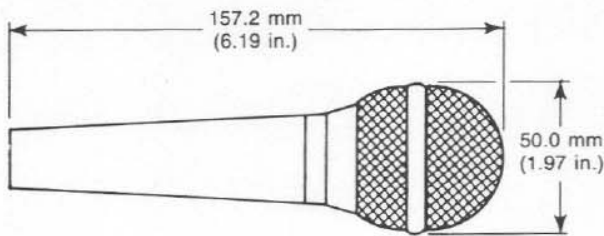


FIGURE 1
Dimensions

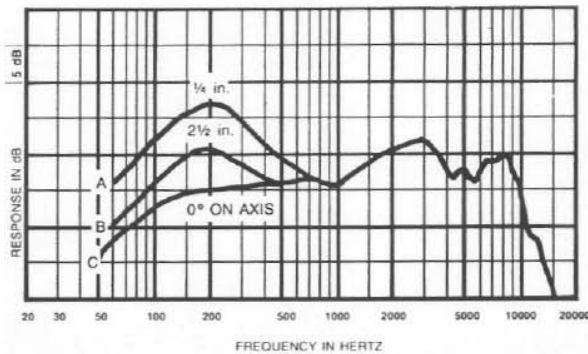


FIGURE 2
Frequency Response

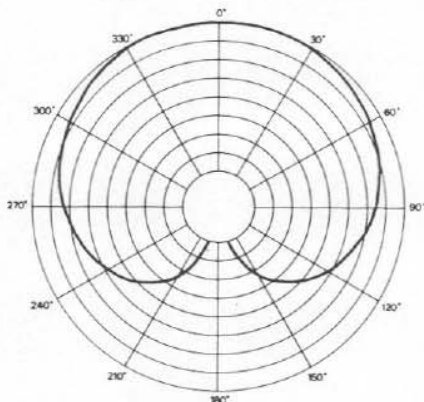


FIGURE 3
Polar Response

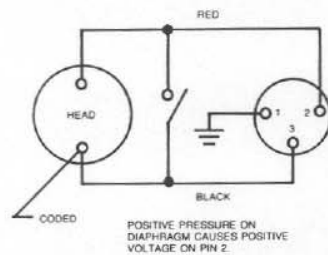


FIGURE 4
Wiring Diagram, Lo-Z

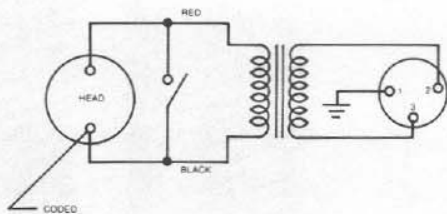


FIGURE 5
Wiring Diagram, Hi-Z

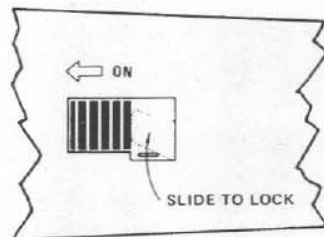


FIGURE 6
Switch Diagram

The variable low-frequency response provides a further feedback-reducing advantage in close-talking applications. At 1/4 inch, low-frequency response is greatly enhanced, while response to distant sound (as from sound system loudspeakers) is unaffected. The result is a reduced tendency to feedback, over and above that provided by the cardioid directional characteristic alone. In short, system sensitivity reduction because of close working, added to the advantage resulting from the bass boosting low-frequency characteristic of the PL68, PL68S and PL68SH makes these instruments exceptionally effective tools for stage and nightclub use.

- For musical pickup, the variable bass response can be utilized to achieve "clean" bass pickup at distances of 24 inches or more. By moving the PL68, PL68S and PL68SH a few inches from the instrument, bass will be increased.

WARRANTY (Limited)

Electro-Voice PL68, PL68S and PL68SH Microphones are guaranteed unconditionally against malfunction from any cause for a period of two years from date of original purchase. If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not extend to finish, appearance items, cables, cable connectors, switches, or malfunction due to abuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than Electro-Voice or its authorized warranty service agencies will void this guarantee. A list of authorized warranty service centers is available from Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831); Electro-Voice, Inc., 3810 148th Avenue, N.E., Redmond, WA 98052 (AC/206-881-9555) and/or Electro-Voice West, 8234 Doe Avenue, Visalia, CA 93291 (AC/209-651-7777). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107.

Specifications subject to change without notice.



ELECTRO-VOICE, INC., 600 Cecil Street, Buchanan, Michigan 49107

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