PL84, PL84S
Cardioid Condenser Vocal Microphone

Key Features:

- Voiced for intimate detail and presence
- Smooth midrange frequency response
- Cardioid polar pattern
- High-output self-biased condenser element
- Shock mounted capsule and low handling noise
- Fine mesh Memraflex™ grille

General Description:

Thank you for purchasing the Electro-Voice® PL84 (or PL84S switched version). This product is a professional-grade cardioid condenser microphone designed to enhance the creative expression professional singers have built their craft around. With its warm lows, musical mid-range and smooth high frequency response, the PL84 captures all of the intimate detail expressive vocalists require. Should you have purchased the PL84S, in addition to all of the outstanding performance characteristics of the PL84, you'll also enjoy the added benefit of a virtually silent on/off switch that allows electrical muting at the microphone. Although designed to be a vocal microphone for music and spoken word, the PL84 will also function well as an acoustic instrument microphone where a condenser element capsule would be desired.

Application Notes:

1) This product requires external power to function (see technical specifications panel for voltage spec), which is commonly supplied via the Phantom Power function on your sound system mixer or input module.

2) As with most directional microphones, the low frequency response of the PL84 microphone varies with the distance from the sound source. Known as "proximity effect", the bass response of the microphone increases as the working distance to the microphone is reduced. This "bass boost" is only audible when working at distances closer than 6 inches. Using this microphone at distances greater than 6 inches provides minimal coloration from proximity effect.

Proximity effect can be used to your advantage when a thin voice is being recorded. As the vocalist decreases their working distance to the microphone, the low frequency content is enhanced. Close-up positioning of the microphone will also reduce the potential for feedback from the sound reinforcement system. When close-talked, the bass-boost provides an increase in overall microphone output level. The mixer gain may be proportionately reduced, resulting in a reduction of the system's sensitivity to feedback caused by the sound entering the microphone from the loudspeakers.

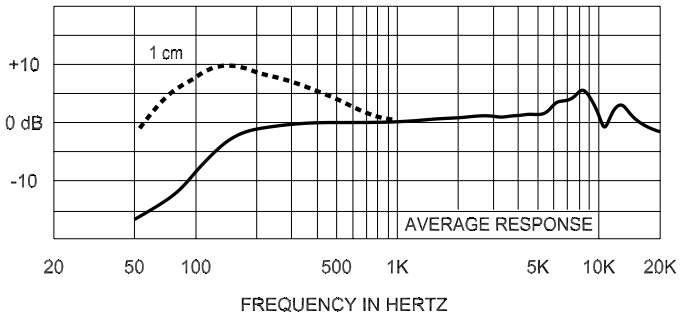
Warranty:

This Electro-Voice® PL84 product is guaranteed against malfunction due to defects in materials or workmanship for a period of three (3) years from the date of original purchase. Please refer to the Limited Warranty card included with your product for further warranty information.

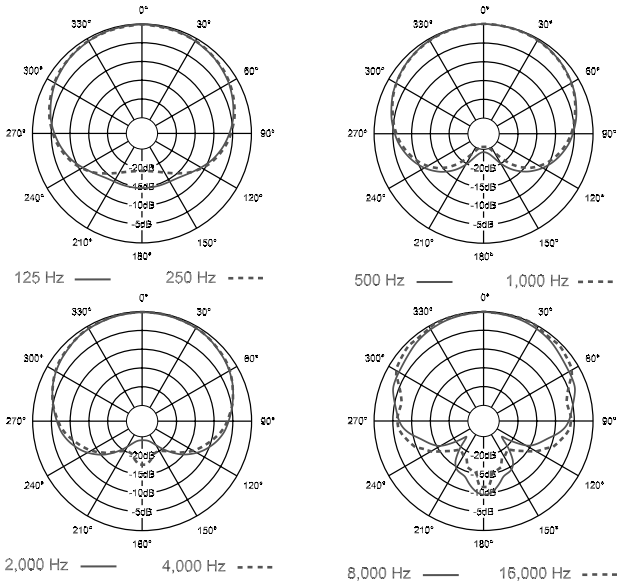
Technical Specifications:

Element Type:	Self-Biased Condenser
Frequency Response:	50 Hz - 20,000 Hz
Polar Pattern:	Cardioid
Sensitivity, Open Circuit Voltage, 1 kHz:	3.5 mV/Pa (-49 dBV)
Polarity:	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
Rated Impedance:	200 ohms
Max SPL (1% THD @1 kHz):	141 dB SPL
Self Noise:	26 dB SPL, A-weighted
Dynamic Range:	115 dB
Signal-to-Noise Ratio:	68 dB (@94 dB SPL)
Power Requirements:	Phantom Supply Requirement: 11 to 52 VDC, 1.9 mA
Microphone Connector:	3-pin, XLR-type
Finish:	Textured black satin handle with Memraflex™ grille
Dimensions:	Length = 7.18" (182.5 mm) Width = 1.93" (49.0 mm) Shank = 0.93" (23.6 mm)
Accessories Included:	Stand adapter with Euro-thread insert, Soft zippered gig bag
Net Weight:	9.3 oz (261 g)
Shipping Weight:	18.2 oz (516 g)

Frequency Response:



Polar Response:



Microphone Use and Placement

Please note that micing techniques are a matter of personal preference. These are merely guidelines to assist in the placement of the microphone to gain optimal performance.

Usage	Optimal Placement
Vocals	**0 to 6 inches away, aimed directly at the sound source.**
Spoken Word	**5 to 10 inches away, aimed directly at the sound source.**

Standard Placement & Use Guidelines

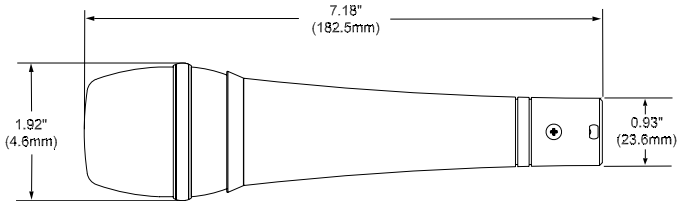
1. Always point the microphone at the desired source of sound, and away from any unwanted sources.

2. The microphone should be located close to the sound source to minimize interference from other potential sound sources.

3. Use the 3-to-1 rule when using multiple microphones. Place each microphone three times farther from other microphones as from the desired sound source.

4. Minimize over-handling of the microphone to reduce unwanted mechanical noise.

Dimension Drawing:



PL84 Part Numbers

- **PRD000159000** **PL84, Cardioid Condenser Vocal Microphone**
- **PRD000160000** **PL84S, Cardioid Condenser Vocal Microphone with Switch**
- **ACC000045000** **SA-PLV, Replacement Microphone Stand Adapter**
- **ACC000048001** **WS-PLV, Optional Foam Windscreen, Black**

Electro-Voice®

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Part Number LIT000245 Rev A

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+ 1 952 884-4051 Fax: + 1 952 887-9212
For warranty repair or service information, contact the Service Repair department at:
800/685-2606
For technical assistance, contact Technical Support at: **866/78AUDIO**