

# PL33 Dynamic Supercardioid Kick-Drum Microphone



## Key Features:

- Frequency contoured for “dialed-in” kick drum sound
- Fast transient response
- Supercardioid polar pattern
- Excellent off-axis rejection
- Powerful Neodymium magnet structure
- Fine mesh Memraflex™ grille

## General Description:

Thank you for purchasing the Electro-Voice® PL33. This product is a professional-grade supercardioid dynamic microphone designed to deliver the power, punctuation and snap of kick drums in any size sound reinforcement system or recording studio. With its tight low end, kick drum-modified mid-range and high frequency response, the PL33 delivers all of the percussive impact detail professional drummers and sound system engineers require. The PL33's tight supercardioid polar pattern is designed to minimize off-axis information entering the capsule, and allows for a very isolated instrument sound and higher gain before feedback. Although designed to be a kick drum microphone, the PL33 also functions quite well as a low tom and bass guitar speaker cabinet microphone.

## Application Notes:

As with most directional microphones, the low frequency response of the PL33 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. Therefore, working close to the microphone will produce a more robust sound. Using this microphone at distances greater than 6 inches provides minimal coloration from proximity effect.

Close-up positioning of the microphone will also reduce the potential for feedback from the sound reinforcement system. Then, 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 sound entering the microphone from the loudspeakers.

## Warranty:

This Electro-Voice® PL33 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.

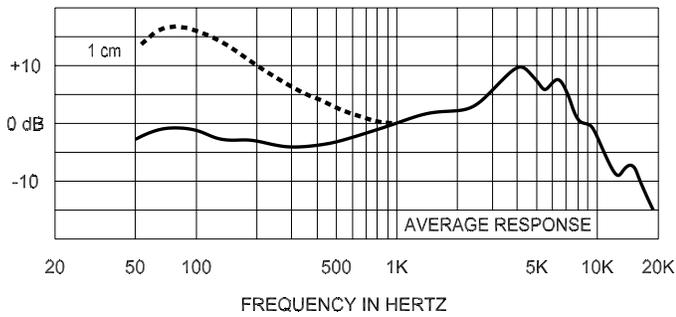


## Technical Specifications:

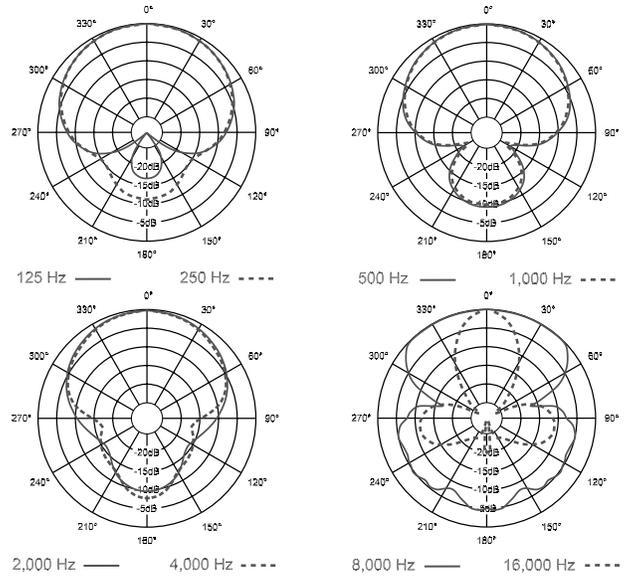
Element Type:	Dynamic, Neodymium Magnet Structure
Frequency Response:	20 Hz - 10,000 Hz
Polar Pattern:	Supercardioid
Sensitivity, Open Circuit Voltage, 1 kHz:	0.63 mV/Pa (-64 dBV)
Polarity:	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
Rated Impedance:	150 ohms
Microphone Connector:	3-pin, XLR-type
Finish:	Textured black satin body with Memraflex™ grille
Dimensions:	Length = 5.57" (141.5 mm) Width = 2.33" (59.2 mm) Shank = 1.01" (25.6 mm)
Accessories Included:	Stand adapter with Euro-thread insert, Soft zippered gig bag
Net Weight:	12.9 oz (364 g)
Shipping Weight:	23.7 oz (672 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

#### Kick Drum

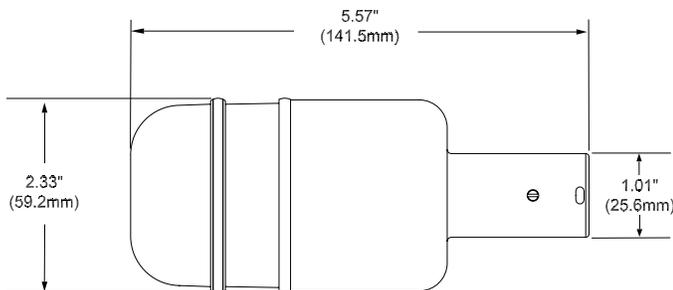
### Optimal Placement

Remove drum head and damp with a pillow or blanket. Position the mic on the pillow or blanket a few inches in front of the drum beater. As an alternative, position the mic on a small boom stand with the mic extended into the drum and at a 90° angle to the drum batter head.

## 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:



### PL33 Part Numbers

- PRD000163000 PL33, Dynamic Supercardioid Kick-Drum Microphone
- ACC000046000 SA-PL20a/33, Replacement Microphone Stand Adapter
- ACC000049001 WS-PL33, Optional Foam Windscreen, Black

**Electro-Voice®**

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www.electrovoice.com

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**800/392-3497 Fax: 800/955-6831**

Europe, Africa, and Middle East only. For customer orders, contact Customer Service at:

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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**

Specifications subject to change without notice.