



DRK 681 8x Condenser Mic Set

User Guide



Specifications

E100
Type
 Back electret condenser

Polar pattern
 Half-Cardioid (Figure 1)

Frequency response
 30 to 18,000 Hz (Figure 2)

Sensitivity
 (at 1,000 Hz Open Circuit Voltage)
 -60dBV/Pa (1.0mV/Pa)
 1Pa=94dB SPL

Rated impedance
 600Ω

Minimum load impedance
 2,000Ω

Equivalent noise level
 Less than 24dB, A-weighted

Max. SPL (1 kΩ load)
 149dB SPL (THD≤1% 1kHz)

Dynamic range (1 kΩ load)
 125 dB

Power supply
 9 to 52 VDC phantom power

Current consumption
 4 mA

Connector
 3 pin male XLR type

Finish
 Black painted finish

Net weight
 270 grams (9.5 oz.)

E109
Type
 Back electret condenser

Polar pattern
 Cardioid (Figure 3)

Frequency response
 40 to 20,000 Hz (Figure 4)

Sensitivity
 (at 1,000 Hz Open Circuit Voltage)
 -43dBV/Pa (7.1mV/Pa)
 1Pa=94dB SPL

Rated impedance
 200Ω

Minimum load impedance
 1,000Ω

Equivalent noise level
 Less than 22dB, A-weighted

Max. SPL (1 kΩ load)
 137dB SPL (THD≤1% 1kHz)

Dynamic range (1 kΩ load)
 115 dB

Power supply
 9 to 52 VDC phantom power

Current consumption
 3.5 mA

Connector
 3 pin male XLR type

Finish
 Black painted finish

Net weight
 120 grams (4.2 oz.)

PRA383
Type
 Back electret condenser

Polar pattern
 Cardioid (Figure 5)

Frequency response
 40 to 18,000 Hz (Figure 6)

Sensitivity
 (at 1,000 Hz Open Circuit Voltage)
 -42dBV/Pa (8.0mV/Pa)
 1Pa=94dB SPL

Rated impedance
 200Ω

Minimum load impedance
 1,000Ω

Equivalent noise level
 Less than 23dB, A-weighted

Max. SPL (1 kΩ load)
 137dB SPL (THD≤1% 1kHz)

Dynamic range at 1 kΩ Load
 114dB

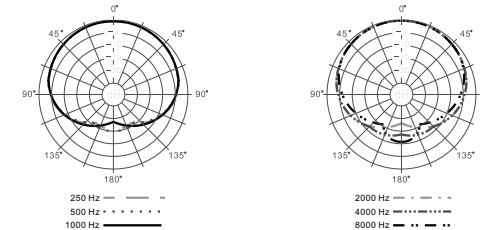
Power supply
 9 to 52 Vdc phantom power

Current consumption
 2.5 mA

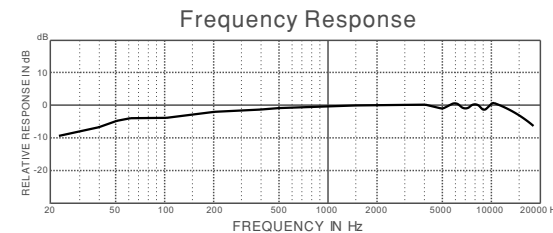
Connector
 3 pin male XLR type

Finish
 Black painted finish

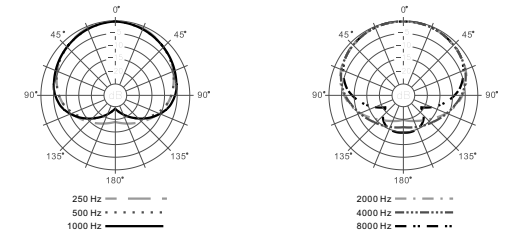
Weight
 160 grams (4.2 oz.),
 PS418S include



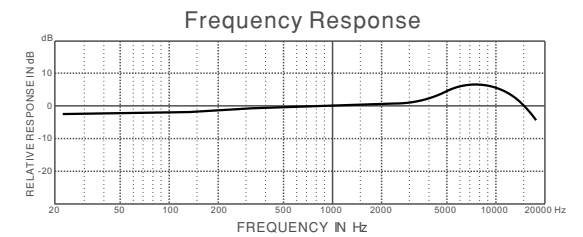
PRA383
TYPICAL POLAR PATTERN (Figure 5)



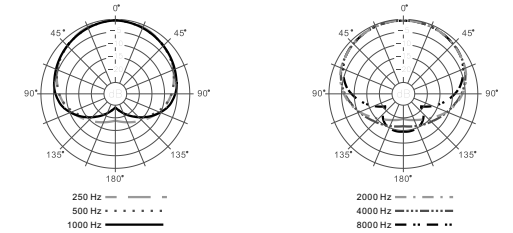
PRA383
TYPICAL FREQUENCY RESPONSE (Figure 6)



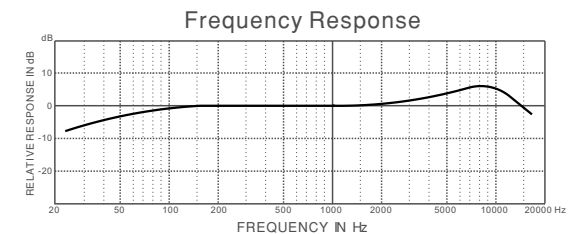
E100
TYPICAL POLAR PATTERN (Figure 1)



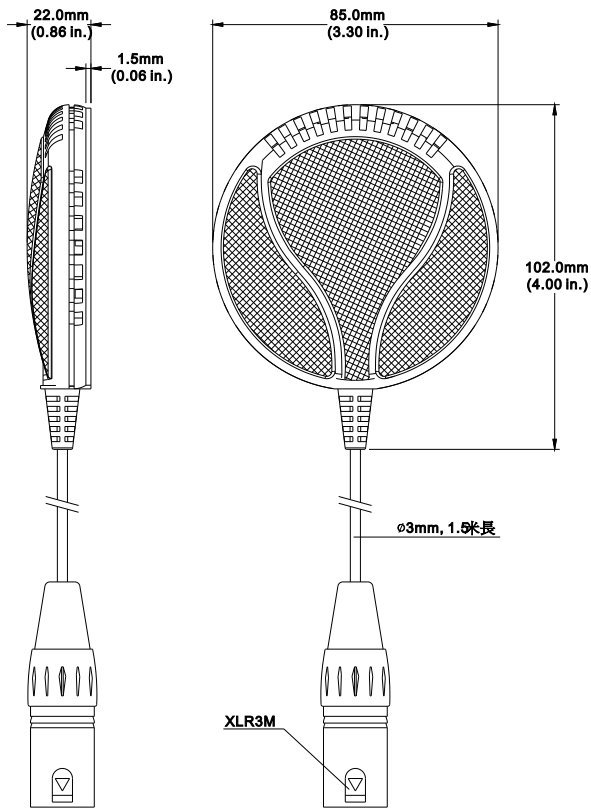
E100
TYPICAL FREQUENCY RESPONSE (Figure 2)



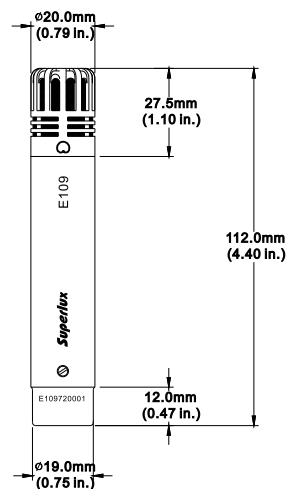
E109
TYPICAL POLAR PATTERN (Figure 3)



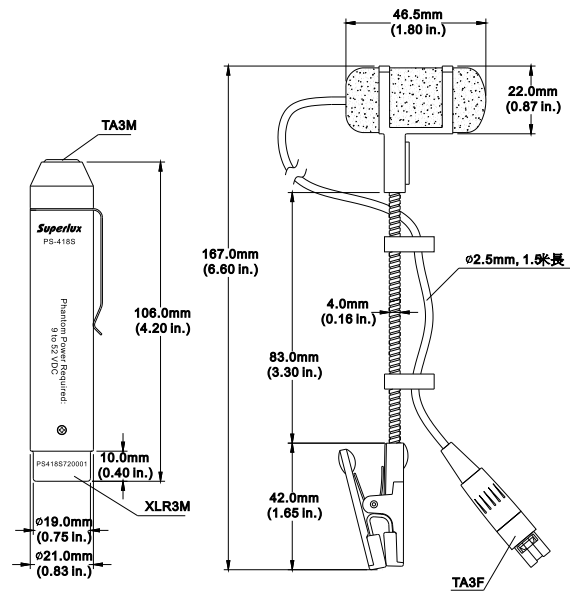
E109
TYPICAL FREQUENCY RESPONSE (Figure 4)



E100 Dimensions (figure 7)



E109 Dimensions (figure 8)



PRA383 Dimensions (figure 9)

The DRK681 comprises with 8 condenser microphones. The E100 in the set is best for low frequency instrument and pick up with boundary technique. There are 4 PRA383, miniature gooseneck with clip that can attach to tom-tom, snare, or any instrument with the easy for use clip. And there are 3 E109, pencil type condenser microphone for stand mount to pick up high frequency instruments, such as cymbal, hi-hat, or strings.

All these microphones works with 9~52VDC phantom power directly or

Package:

Large deluxe aluminum carrying case.

Supplied components:

- 4 x PS418S
- 3 x HM10S mic clips
- 3 x S20 wind screen foam
- 3 x YA-1 5/8"~3/8" adapter

Related products:

- Drum clamp ----- HM12A
- Universal suspension ----- HM32
- Table top microphone stand ----- HM6

Knowing your microphone

Superlux provides variety selection of microphones for professionals and amateurs. To know your microphone is the first step to successful result.

Type of transducer



Condenser

Extremely light weight diaphragm, very sensitive to sound. Very small versions available for hiding applications. High performance condenser microphones are regarded as standard equipment of recording studios for extreme detail capturing. Operates with power, such as phantom or battery.

About Frequency Response

Flat

Suitable for working at controlled environment, or for acoustic measurements. Although people pursuit flatness, but for none-professionals, it is a challenge to makes it works as expectation.

Popular curve response

Based on years of practical experience of pro users. There are curves to be build for various applications, so that it is very simple to use the microphone for the purpose. Limiting bandwidth, and emphasizing are typical skill.

Variable response

Incorporating switchable filters to eliminates interference, such as sub-sonic filter to cut air-conditioner and floor vibrations. And allows full flat when used in controlled environment.

Directivity



Cardioid

Picks up most signal on axis. Rejects side and picks up least to the back. Suitable for live sound reinforcement. Apparent proximity effect and most singer likes to take this bass boost advantages which is not good for speech.

Mounting the microphone

Pressure gradient microphone is very sensitive to vibration. Suitable shock mount for high performance microphone is necessary for extreme low noise recording. Sturdy stand can set the microphone exactly at the sweet spot and keep it there. Choose heavy duty microphone stand for studio condenser microphone which weights much more than handle microphone.

Superlux provides wide range of microphone stands for various demands. Big Foot Willie is specially developed for large condenser microphones that able to support 2 large microphones with stereo bracket for single point stereo recording.

Extension foot on all the 'E' versions serve to mount heavy studio microphone in limit space live sound applications.

Maintainence

Condenser microphone shall be kept in low humidity environment for best sound performance. Store the condenser microphones in airconditioned room or dehumidifier to keep away form moisture. Clean air is another important factor. Keep away from smoking environment to avoid tar residuals.

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