



PROH7F

Super Cardioid Dynamic Microphone

User Guide



Specifications

Type

Dynamic microphone

Polar pattern

Unidirectional (Super Cardioid), rotationally symmetrical about microphone axis, uniform with frequency. (Figure 1)

Frequency response

50 to 15,000 Hz (Figure 2)

Sensitivity (at 1,000 Hz Open Circuit Voltage)

-55dBV/Pa (1.8mV/Pa) 3dB, 1Pa=94dB SPL

Rated impedance

300Ω

Connector

Integral 3 pin male XLR type

Finish

Pro-environmental chromeplated outlook design

Environmental conditions

The PROH7F operates between -10°C to +50°C(14°F to 122°F) with relative humidity between 0 to 95%.

Dimensions

56mm x 67.5mm x 191mm(2.2in x 2.66in x 7.5in) · figure 3.

Net weight

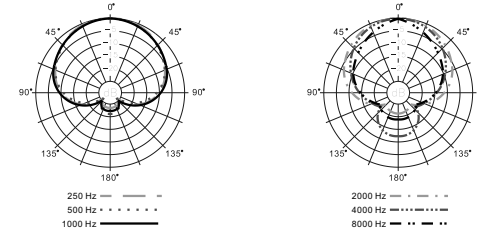
520.0 grams (18.30 oz)

RoHS

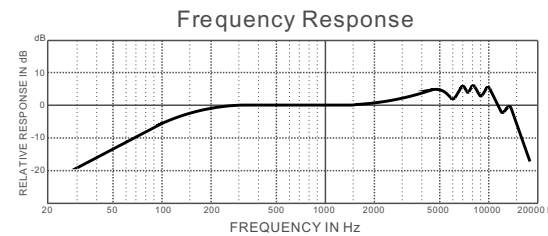
The PROH7F including the product and packages follow the instruction of EU 2002/95/EC and comply to RoHS.

Features

- Classic and elegant appearance, modernized performance.
- Tailored frequency response for speech, vocals and instruments miking.
- Shock-mounted cartridge minimized mechanical and vibrational noise.
- A self-tensioning swivel mount permits tilting 45° toward the vocalist and 80° toward the opposite.
- External ON/OFF switch easy to operate.
- Shell construction with 5/8"~27T screw adaptor design.
- Microphone was pro-environmental chromeplated, let it lasting as bright as when new.



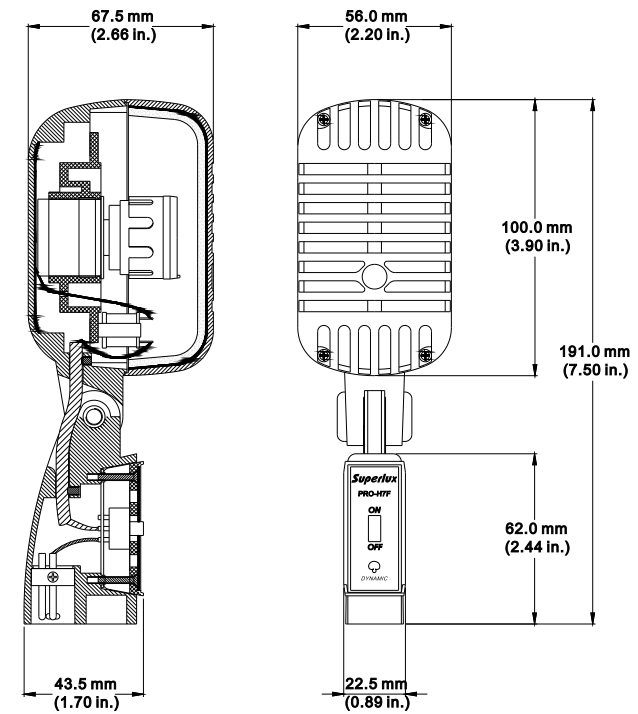
TYPICAL POLAR PATTERN (Figure 1)



TYPICAL FREQUENCY RESPONSE (Figure 2)

Description

The PROH7F is a super cardioid microphone with perfect performance and classic appearance, it meets the expectations of customers who are keen on the affection in remembering the past especially between the 50's and 60's —The period of the golden age of jazz music. Though PROH7F looks like an ancient article but its technical performance is substantially modernized with very advanced specifications adapted to a variety of use in audio miking up to date.



Dimensions (Figure 3)

Supplied accessories

Carrying pouch -----
3/8" to 5/8" adapter ----- YA1



Carrying pouch



YA1
Screw adaptor

Related accessories

Table stand included ----- D1
Table stand ----- HM6
Microphone cable ----- ECO series
Instrument boom stand ----- MS104



D1
Table stand included



HM6
Table stand



Cable
Eco series



MS104
Instrument
boom stand

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



Dynamics

Durable and simple structure, operates in all kinds of environments. A good dynamic microphone is capable to operate at very high sound pressure level without distortion. Due to structure limit, dynamics cannot be built as small as condenser, but dynamics doesn't require power to operate.

About Frequency Response

Flat

Suitable for working at controlled environment, or for acoustic measurements. Although people pursue flatness, but for non-professionals, it is a challenge to make it work as expectation.

Popular curve response

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

Variable response

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

Directivity



Super Cardioid

Narrower than cardioid pattern. Suitable for multiple microphone setup. Least sensitive angle pointing toward side to rear where most stage monitors are located. Same proximity effect as cardioid microphone.

Distance to source

Close miking or distant miking sound very differently. Vocal recording or live performance practice close miking mostly. Suitable proximity effect is one desired target, and lower feedback problem is another factor for live sound application.

While distant miking is common practice for recording, especially stereo pair recording with large group of performers, such as orchestra or choir.

Distant miking generally picks up less bass section with pressure gradient type of microphone (cardioid, figure-8, shotgun...) due to acoustic nature and lack of proximity effects.

Rich bass with distant miking can be recorded with pressure type of microphone (Omni), which performs the same frequency response with close or distant pick-up.

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 weighs 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 limited space live sound applications.

Maintenance

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

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