



4098H HANGING SUPERCARDIOID MICROPHONE

F R O M D P A M I C R O P H O N E S

DPA 
MICROPHONES



4098H Hanging Supercardioid Microphone

Leading condenser microphone designer and manufacturer, Danish DPA Microphones, continues the heritage of sonic excellence with the 4098H Hanging Supercardioid Microphone. Designed to be suspended in environments like churches, performing arts centers, orchestra pits, theaters and TV studios, the 4098H delivers sparkling clear and distinct natural sound for both recording and sound reinforcement of choirs, instrumental or vocal groups, speech or live audiences.

This new microphone represents a breakthrough in discreet, elegant and lightweight design. Extremely low in profile, the integrated gooseneck provides the ability to easily aim the mics, ensuring perfect positioning with minimal visual impact since the optional extension cables are very slim and nearly invisible.

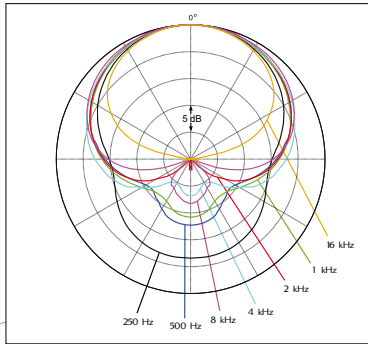
These microphones live up to their pedigree with sound as accurate as DPA's other world-class microphones with clear and natural reproduction, flat response and uniform off-axis rejection combined with excellent gain-before-feedback characteristics for live applications. The 4098H has extremely high rejection of RF interference post the signal balanced XLR connector which offers more than 60 dB common mode rejection.

With its easy to hang and aim design along with its extremely natural sound, the 4098H is truly a hanging microphone without equal.

Key Features

- Low noise, wide dynamic range
- Excellent gain-before-feedback
- Can be suspended or mounted in microphone stand
- Minimal visual impact, non-reflective surface

Specifications for DPA 4098H



Polar Pattern

Typical directional characteristics of 4098H (normalized).

Directional characteristics

Supercardioid

Principle of operation

Pressure gradient

Cartridge type

Pre-polarized condenser

Frequency range

20 Hz to 20 kHz

Frequency range, ± 2 dB, 20 cm (7.9 in) distance

80 Hz to 15 kHz with 3 dB soft boost at 8 to 15 kHz

Sensitivity, nominal, ± 3 dB at 1 kHz

20 mV/Pa; -34 dB re. 1 V/Pa

Equivalent noise level, A-weighted

Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))

Equivalent noise level, ITU-R BS.468-4

Typ. 35 dB (max. 38 dB)

S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL)

71 dB(A)

Total Harmonic Distortion (THD)

<1 % up to 123 dB SPL peak

<1 % up to 120 dB SPL RMS sine

Dynamic range

Typ. 100 dB

Max. SPL, peak before clipping

134 dB

Output impedance

From MicroDot: 30 to 40 ohm

From DAD6001: 100 ohm

Cable drive capability

Up to 300 m (984 ft) with DAD6001 XLR adapter

Output balance principle

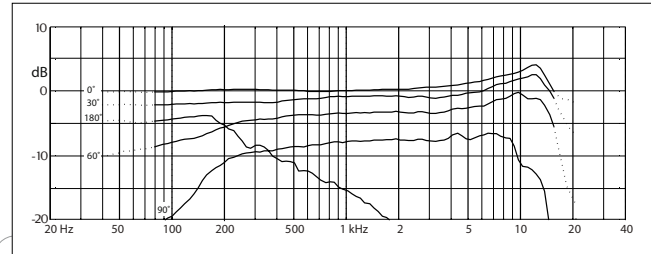
Signal balanced with DAD6001 XLR adapter

Common Mode Rejection Ratio (CMRR)

> 60 dB from 50 Hz to 15 kHz with DAD6001 XLR adapter

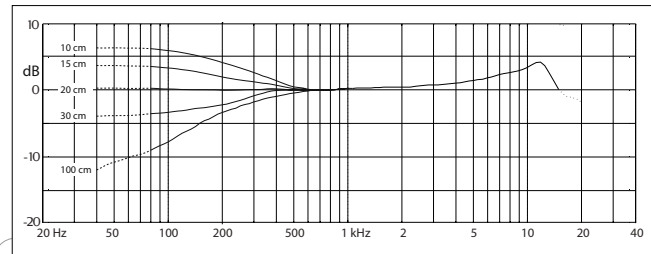
Power supply (for full performance)

For wireless systems: Min. 5 V to max. 50 V through DPA adapter;
with DAD6001: 48 V phantom power ± 4 V



Frequency Response

Typical on- and off-axis frequency response of 4098H at 20 cm (7.9 in) distance.



Proximity Effect

Proximity effect exhibited by 4098H.

Current consumption

1.5 mA (microphone)

35 mA with DAD6001 XLR adapter

Connector

MicroDot

3-pin XLR-M from DAD6001 XLR adapter

Color

Black (4098HB)

White (4098HW)

Weight

5 g (0.18 oz)

Microphone length

154 mm (6 in)

Capsule diameter

54 mm (0.2 in)

Microphone diameter

10 mm (0.39 in)

Gooseneck length

95 mm (3.7 in)

Polarity

Positively increasing sound pressure produces positive-going voltage at MicroDot pin (and pin 2 on DAD6001 XLR adapter)

Operating temperature range

-40 °C to +50 °C (-40 °F to 113 °F)

Operating relative humidity (RH)

Up to 90 %



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