



4098HB, 4098H Hanging Supercardioid Microphone

- Accurate, natural sound with superior gain before feedback
- Minimal visual impact, available in black and white
- Exceptional RF interference rejection

For more information please visit:
www.dpamicrophones.com

Dedicated to hanging applications like churches, performing arts centers, orchestra pits, theatres 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.

The 4098H 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 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 sound, flat response and uniform off-axis sound combined with excellent gain-before-feedback characteristics for live sound. 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 that continues the heritage of sonic excellence from DPA Microphones.

The package includes
A supercardioid gooseneck microphone (no cable included, the microphone terminates in a MicroDot connector)
Integrated windscreens
XLR adapter
Zipper pouch

4098HB, 4098H Hanging Supercardioid Microphone

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 diffuse field 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 mPa (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 – max. 50 V through DPA adapter; with DAD6001: 48 V phantom power ± 4 V

Current consumption:

1.5 mA. 3.5 mA with DAD6001 XLR adapter

Connector:

MicroDot; 3 pin XLR-M from DAD6001 XLR adapter

Color:

Black (4098HB) or white (4098HW)

Microphone weight:

5 g (0.18 oz)

Microphone diameter:

10 mm (0.39 in)

Capsule diameter:

5.4 mm (0.2 in)

Microphone length:

154 mm (6.1 in)

Polarity:

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

Temperature range:

-40 °C to 45 °C (-40 °F to 113 °F)

Relative humidity:

Up to 90 %

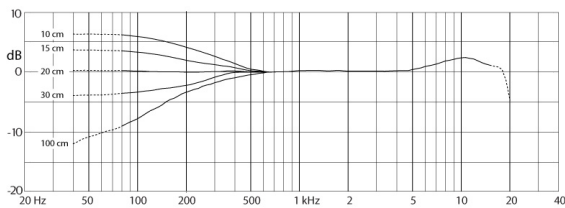
Gooseneck length:

95 mm (3.7 in)

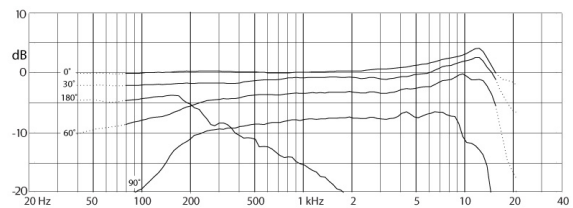
Diagrams

4098HB, 4098H Hanging Supercardioid Microphone

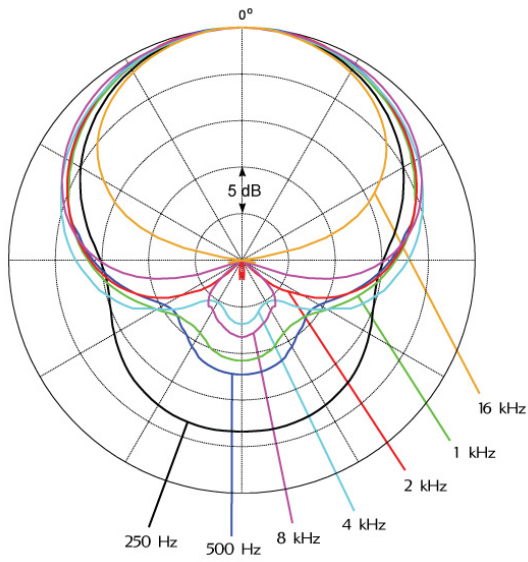
The proximity effect exhibited by DPA 4098H Hanging Cardioid Microphone



Typical on- and off-axis frequency response of DPA 4098H Hanging Cardioid Microphone at 20 cm (7.9 in) distance



Typical directional characteristics of DPA 4098H Hanging Cardioid Changes in specifications if you supply less than 48V Phantom Microphone (normalized)



	48 V	42 V	36 V	32 V	24 V	18 V	12 V	9 V
Noise (dBA)	26	26	26	26	26	26	26	N/A
SPL limit dB	142	142	142	142	136	126	134	N/A
V RMS	3	3	3	2.8	2.5	1.8	0.6	N/A



Head Office
 DPA Microphones A/S
 Gydevang 42- 44
 DK-3450 Allerød
 Denmark
 Tel: +45 4814 2828
 Fax: +45 4814 2700
 info@dpamicrophones.com
 www.dpamicrophones.com

US Sales Office
 DPA Microphones, Inc.
 1500 Kansas Avenue, Unit 3A
 Longmont, CO 80501
 USA
 Tel: +1 303-485-1025
 Fax: +1 303-485-6470
 info-usa@dpamicrophones.com
 www.dpamicrophones.com