



4091, 4091 Omni Mic, Low Sens, P48

The DPA 4091 is a high quality, low sensitivity omnidirectional microphone, suitable for instrument miking applications in the studio or on stage.

- excellent for percussion
- natural and open sound
- handles high sound pressure levels with ease

The DPA 4091 is a high quality omnidirectional condenser microphone. Due to its uniquely natural and open sound, the 4091 is suitable for instrument miking applications in the studio or on the stage.

The 144 dB SPL handling means it can meet just about any challenge including miking an electric guitar amp. An excellent microphone for percussion instruments, the 4091 is also an ideal choice for wind and string instruments. Due to their remarkably linear frequency response in the 20 Hz to 20 kHz range, sound system engineers can also use these mics for sound system alignment, testing and tuning.

The rugged and compact design features a 5.4 mm diameter pre-polarized condenser capsule in a tapered body measuring just 12 cm (4.76 in).

For more information please visit:
www.dpamicrophones.com

4091, 4091 Omni Mic, Low Sens, P48

Directional characteristics:

Omnidirectional

Principle of operation:

Pressure

Cartridge type:

Pre-polarized condenser

Frequency range, ± 2 dB:

20 Hz – 20 kHz

Sensitivity, nominal, ± 3 dB at 1 kHz:

6 mV/Pa; -44.5 dB re. 1 V/Pa

Equivalent noise level, A-weighted:

Typ. 26 dB(A) re. 20 μ Pa (max. 28 dB(A))

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

Typ. 38 dB (max. 40 dB)

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

dB SPL):

68 dB(A)

Total harmonic distortion (THD):

< 1 % up to 123 dB SPL peak

Dynamic range:

Typ. 97 dB

Max. SPL, peak before clipping:

144 dB

Output impedance:

< 40 ohm

Cable drive capability:

Up to 300 m (984 ft)

Output balance principle:

Impedance balanced

Common Mode Rejection Ratio (CMRR):

> 40 dB

Power supply:

48 V Phantom power ± 4 V

Current consumption:

2 mA

Connector:

3-pin XLR-M

Color:

Black

Microphone weight:

38 g (1.34 oz)

Microphone diameter:

19 mm; at tip 6.7 mm (0.75 in; at tip: 0.26 in)

Capsule diameter:

5.4 mm (0.21 in)

Microphone length:

122 mm (4.8 in)

Polarity:

Positively increasing sound pressure produces positive going voltage at pin 2

Temperature range:

-40 °C to 45 °C (14 °F to 113 °F)

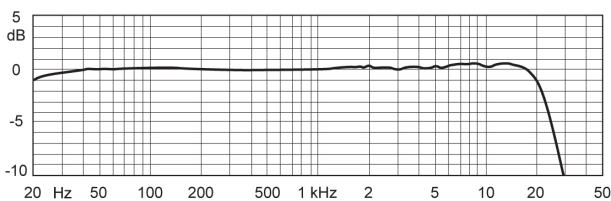
Relative humidity (RH):

90 %

Diagrams

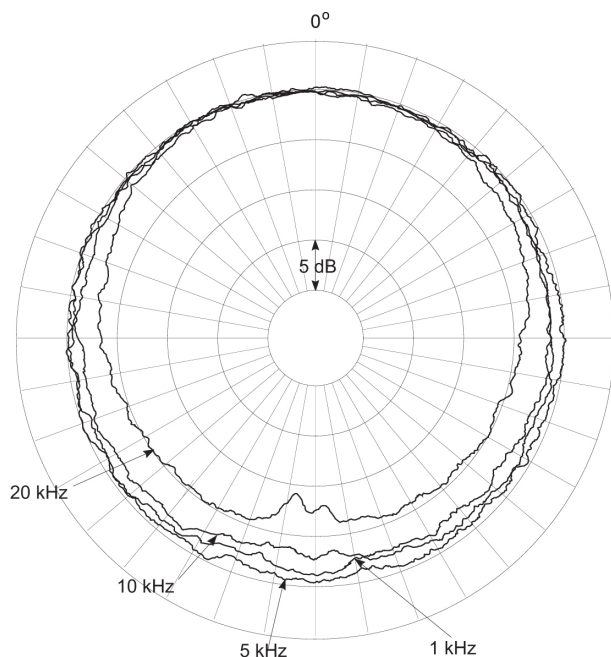
4091, 4091 Omni Mic, Low Sens, P48

Typical on-axis frequency response of DPA 4091 in free field



Typical on-axis frequency response of DPA 4091 in free field

Directional Characteristics of DPA 4091



Directional Characteristics of DPA 4091



Headquarters:
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

United States:
DPA Microphones, Inc.
2432 N. Main St., Suite 200
Longmont, CO 80501, USA
Tel: +1 303- 485-1025
Fax: +1 303- 485-6470
info-usa@dpamicrophones.com
www.dpamicrophones.com