4006C, 4006C Omni Microphone, Compact

- Neutrality
- Versatility
- Precision
- Recording standard

Full-bodied sound from a small-bodied mic

Wherever a small, lightweight, inconspicuous microphone for top-quality recording is required, the compact design and clean, transparent sound of our versatile 4006C makes it the perfect choice. They are particularly popular as A-B stereo pairs in concert halls where quality recordings can sometimes be compromised by classic architecture.

The 4006C can be mounted, hung or concealed to create clean, transparent recordings. It is ideal in theatres, opera and concert halls or places of worship where there is a live audience, and for film applications, both in the studio and on location. These mics are also popular with musicians for close-miking instruments such as double bass, trumpet and piano. At the same time they are wonderful for ambience miking on soundstages, in sports stadiums and other environments where audience sound needs to be recorded.

Several tools in one

A wide selection of acoustic modification accessories, including nose cone and interchangeable protection grids, allows the 4006C to be acoustically transformed into seven different microphone versions, making it the most multifaceted mic in your collection and a tremendous value. By simply changing a grid or mounting an element over the capsule, it is possible to gain several unique frequency responses and directional characteristics from a single mic. Furthermore, these grids and elements will not produce any phase shift, noise or distortion that would otherwise be introduced by an electrical filter.

Also available as matched stereo pair

The ST4006C stereo pair is supplied in a specially designed PeliTM Case, the stereo matching is free of charge.

For more information please visit:

www.dpamicrophones.com

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Directional characteristics:
Omnidirectional

Principle of operation:
Pressure

Catridge type:
Pre-polarized condenser

Frequency range:
10 Hz to 20 kHz

Frequency range, ± 2 dB:
20 Hz to 20 kHz

Sensitivity, nominal ±2 dB at 1 kHz:
40 mV/Pa; -28 dB re. 1 V/Pa

Equivalent noise level, A-weighted:
Typ. 15 dB(A) re. 20 µPa (max. 17 dB(A))

Equivalent noise level, ITU-R BS.468-4:
Typ. 27 dB (max. 29 dB)

S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL):
Typ. 79 dB(A)

Total Harmonic Distortion (THD):
< 1 % up to 134 dB SPL peak

Dynamic range:
Typ. 119 dB

Max. SPL, peak before clipping:
140 dB

Minimum load impedance:
2 kohm

Output impedance:
< 200 ohm

Cable drive capability:
100 m (328 ft)

Output balance principle:
Impedance balancing with Active Drive

Common Mode Rejection Ratio (CMRR):
> 50 dB

Power supply (for full specifications):
48 V Phantom power (± 4 V)

Current consumption:
2.8 mA

Connector:
XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase

Color:
Matte black

Weight:
63 g (2.2 oz)

Diameter:
16 to 19 mm (0.63 to 0.75 in)

Capsule diameter:
16 mm (0.63 in)

Length:
64 mm (2.5 in)

Output voltage, RMS:
> 4 V

Polarity:
+V at Pin 2 for positive sound pressure

Temperature range:
-40 °C to 45 °C (14 °F to 113 °F)

Relative Humidity (RH):
Up to 90%

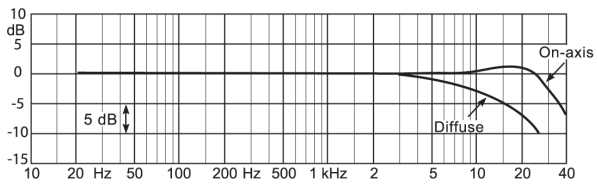
Matching tolerance:
± 0,5 dB

Phase deviation for kit:
< 5°

Diagrams

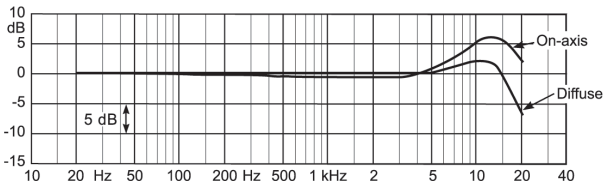
4006C, 4006C Omni Microphone, Compact

On-axis and diffuse-field responses of DPA 4006C with the pre-mounted, silver Near-field Grid DD0251 fitted



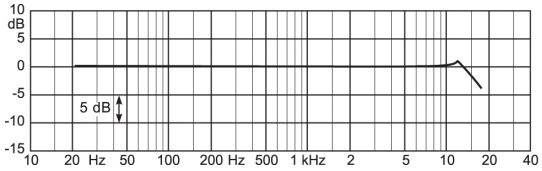
On-axis and diffuse-field responses of DPA 4006C with the pre-mounted, silver Near-field Grid DD0251 fitted

On-axis and diffuse-field responses of DPA 4006C with the black Diffuse-field Grid DD0297 fitted



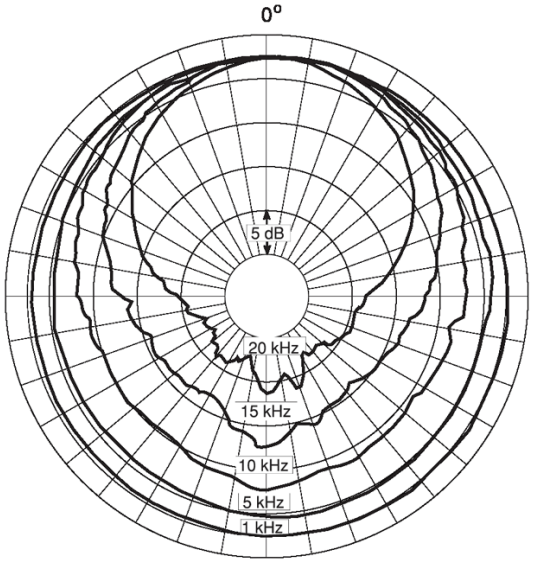
On-axis and diffuse-field responses of DPA 4006C with the black Diffuse-field Grid DD0297 fitted

On-axis response of DPA 4006C with the silver trapezoid Close-miking Grid DD0254



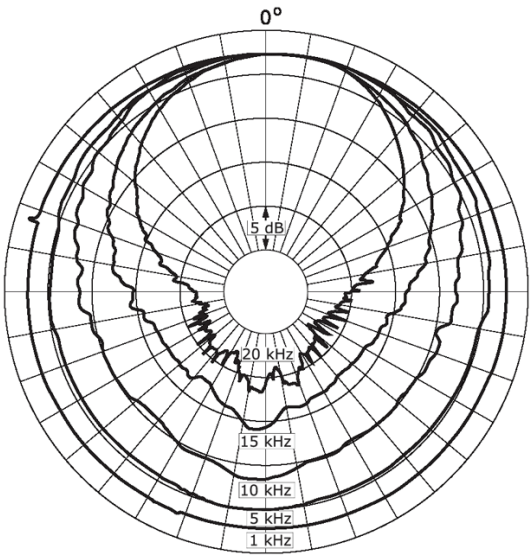
On-axis response of DPA 4006C with the silver trapezoid Close-miking Grid DD0254

Directional characteristics of DPA 4006C with the pre-mounted, silver Free-field Grid DD0251 fitted (normalized)



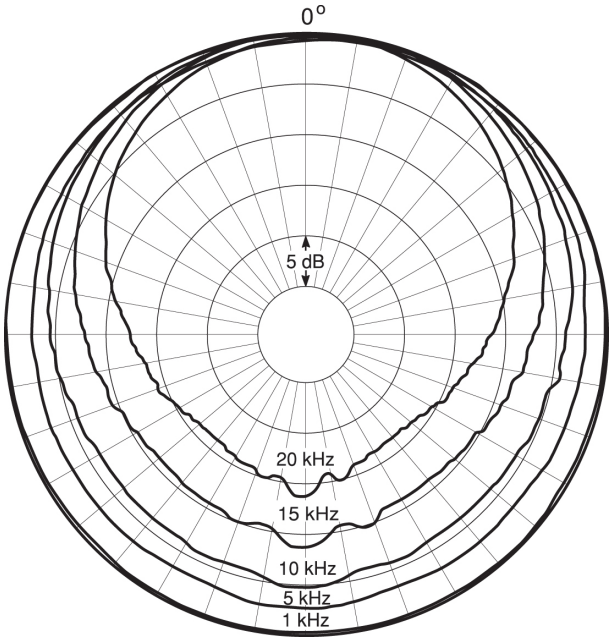
Directional characteristics of DPA 4006C with the pre-mounted, silver Free-field Grid DD0251 fitted (normalized)

Directional characteristics of DPA 4006C fitted with the black Diffuse-field Grid DD0297 (normalized)



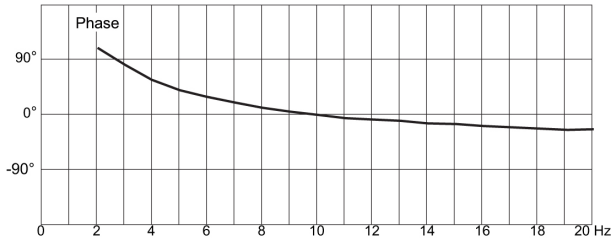
Directional characteristics of DPA 4006C fitted with the black Diffuse-field Grid DD0297 (normalized)

Directional characteristics of DPA 4006C with the silver trapezoid Close-miking Grid DD0254



Directional characteristics of DPA 4006C with the silver trapezoid Close-miking Grid DD0254

On-axis phase response of DPA 4006C plotted using a linear frequency axis for evaluation of the phase response



On-axis phase response of DPA 4006C plotted using a linear frequency axis for evaluation of the phase response

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