



4051, 4051/52 Compact Omnidirectional

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- obvious choice when high definition audio is paramount
- comes in two variants: with rear cable or side cable

The DPA Compact omnidirectional phantom powered (P48) condenser microphones use the same type of cartridge as the famous DPA 4006, but is preamplified using a built-in ultra small thick-film mounted FET preamplifier, which enables the cartridge to be mounted on a extremely compact microphone housing.

The linear on-axis frequency response from 20 Hz to 20 kHz (± 2 dB) together with the ultra-small design makes the compact omni the perfect choice for all kinds of on-camera or on-stage use where high definition audio is paramount.

Two variants
The 4051 has its cable mounted at 90° to the microphone axis, which mechanically is perfect for situations where the microphone needs to be mounted directly on the musical instrument or suspended to record an audience.

The 4052 has its cable mounted behind the microphone axis for situations where the microphone needs to be suspended from its own cable. It is extremely popular as A-B Stereo pairs in concert halls where the beautiful architecture has to go hand in hand with quality recordings.

For more information please visit:
www.dpamicrophones.com

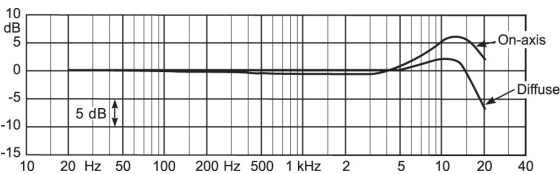
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Directional characteristics: Omnidirectional	Total harmonic distortion (THD): <0.5 % THD up to 125 dB SPL peak, <1 % THD up to 131 dB SPL peak	Microphone weight: 22 g (0.78 oz) (without cable)
Principle of operation: Pressure	Dynamic range: Typ. 116 dB	Microphone length: 25 mm (0.98 in)
Cartridge type: 16 mm (0.6 in) pre-polarised condenser	Max. SPL, peak before clipping: 135 dB	Cable length: 3 m (9.8 ft)
Frequency range, ± 2 dB: On-axis: 20 Hz - 20 kHz	Output impedance: <300 ohm	Operating temperature range: -40 to +55° C (-40 to 131° F)
Sensitivity, nominal, ± 2 dB: 30 mV/Pa; -30 dB re. 1 V/Pa	Cable drive capability: Up to 100 m (328 ft) after XLR connector	
Equivalent noise level A-weighted: Typ. 15 dB(A) re. 20 μ Pa (max. 17 dB(A))	Power supply: 48 V Phantom power	
Equiv. noise level ITU-R BS.468-4: Typ. 27 dB (max. 29 dB)	Current consumption: 2.6 mA	
S/N ratio, re. 1 kHz at 1 Pa (94 dB SPL): 79 dB(A)	Connector: 3-pin XLR-M (Standard P48)	

Diagrams

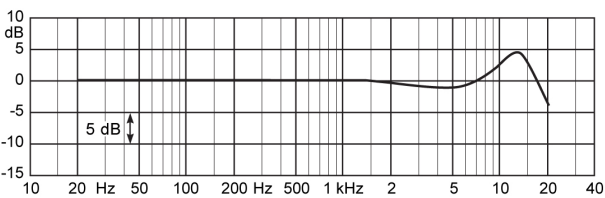
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On-axis and diffuse-field response of DPA 4051/52/53 with the Diffuse-field Grid DD0297 fitted.



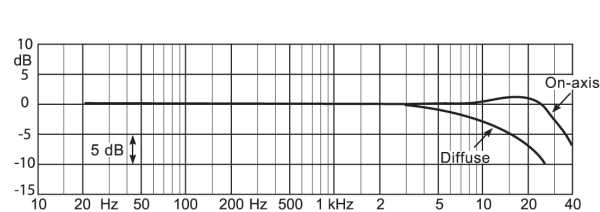
On-axis and diffuse-field response of DPA 4051/52/53 with the Diffuse-field Grid DD0297 fitted.

Diffuse-field response of DPA 4051/52/53 with Nose Cone UA0777 fitted.



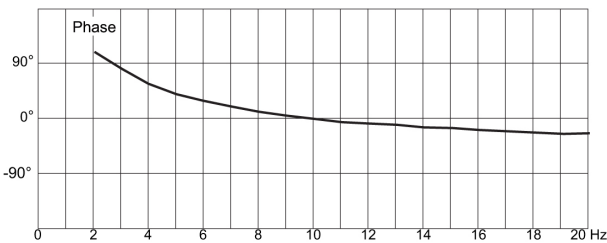
Diffuse-field response of DPA 4051/52/53 with Nose Cone UA0777 fitted.

On-axis and diffuse-field responses of DPA 4051/52/53 with the Near-field Grid DD0251 fitted.



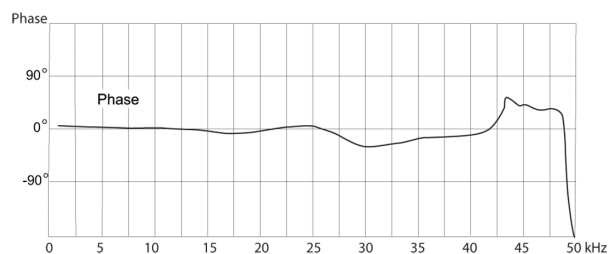
On-axis and diffuse-field responses of DPA 4051/52/53 with the Near-field Grid DD0251 fitted.

Low frequency phase of DPA 4051/52/53



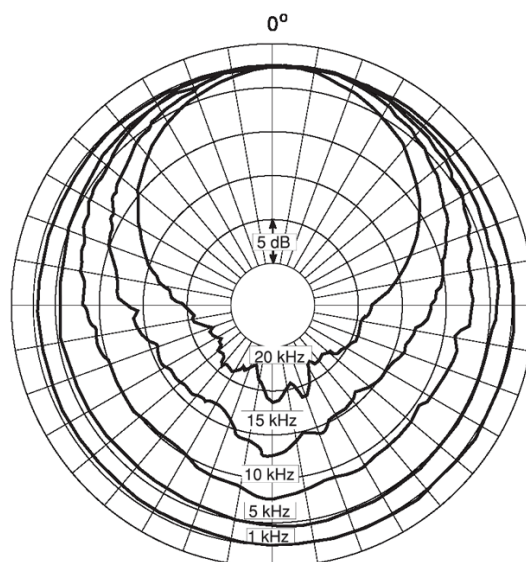
Low frequency phase of DPA 4051/52/53

Phase response of DPA 401/52/53



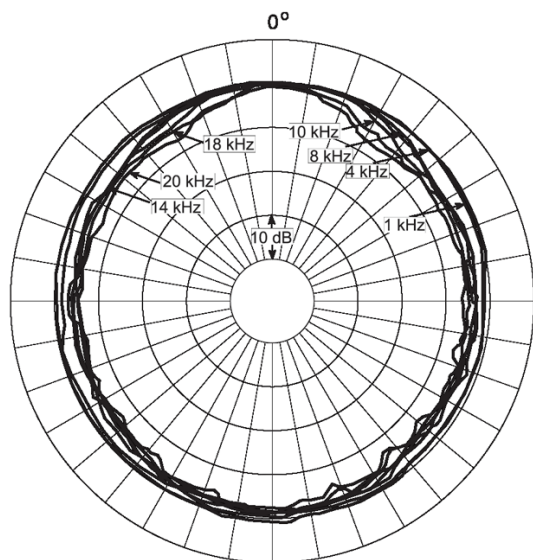
Phase response of DPA 401/52/53

Directional characteristics of DPA 4051/52/53 with Near-field Grid DD0251 fitted (normalized).



Directional characteristics of DPA 4051/52/53 with Near-field Grid DD0251 fitted (normalized).

Directional characteristics of DPA 4051/52/53 with Nose Cone UA0777 fitted (normalized).



Directional characteristics of DPA 4051/52/53 with Nose Cone UA0777 fitted (normalized).



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