



4006 Omnidirectional Microphone

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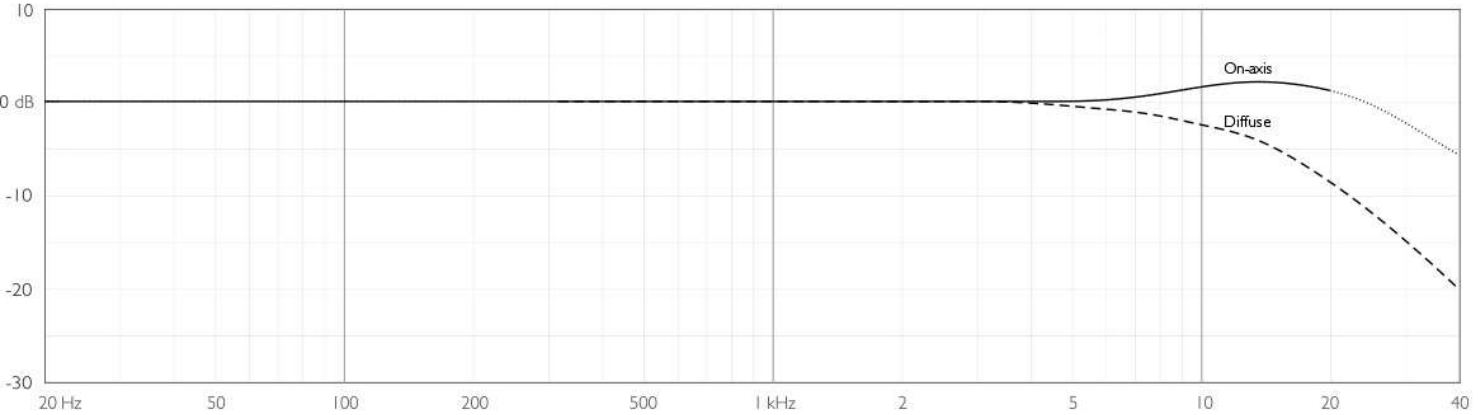
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Specifications - 4006A

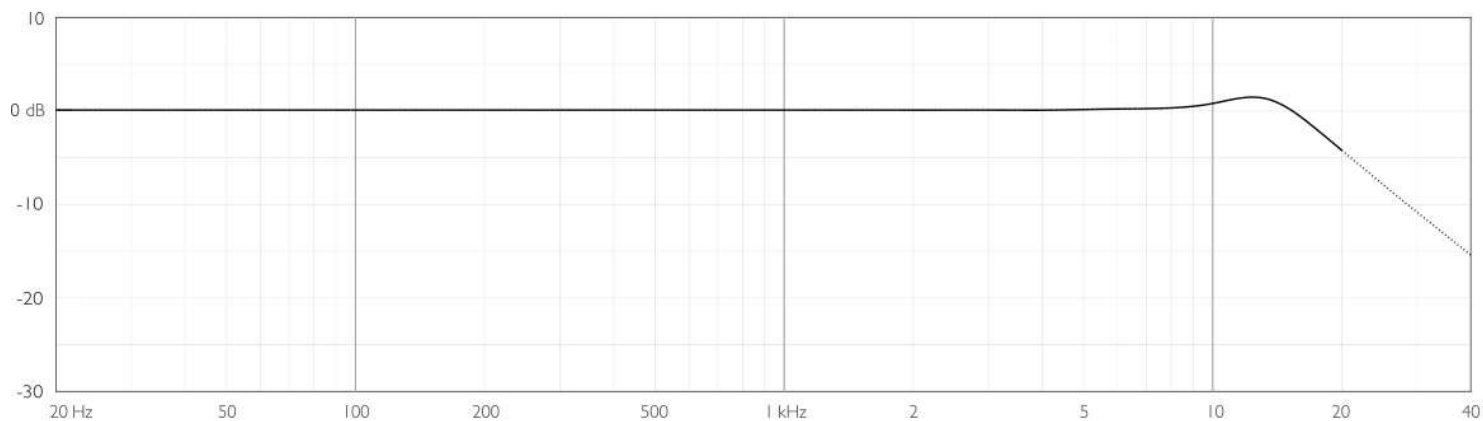
Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser

Frequency response	10 Hz - 20 kHz
Effective frequency range ± 2 dB	10 Hz - 20 kHz
Sensitivity, nominal, ± 2 dB at 250 Hz	S/N up to 3170324: 40 mV/Pa; -28 dB re. 1 V/Pa S/N from 3170325: 36 mV/Pa; -28,9 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 15 dB(A) re. 20 μ Pa (max. 17 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 27 dB (max. 29 dB)
Distortion, THD < 1%	S/N up to 3170324: 136 dB SPL RMS, 139 dB SPL peak S/N from 3170325: 133 dB SPL RMS, 136 dB SPL peak
Dynamic range	S/N up to 3170324: Typ. 124 dB S/N from 3170325: Typ. 121 dB
Max. SPL, THD 10%	146 dB SPL peak
Switchable attenuator, filters etc.	0 dB / -20 dB
Rated output impedance	200 Ω
Minimum load impedance	2 k Ω
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balancing with Active Drive
Common mode rejection ratio (CMRR)	> 60 dB
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	2.8 mA
Connector	XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase

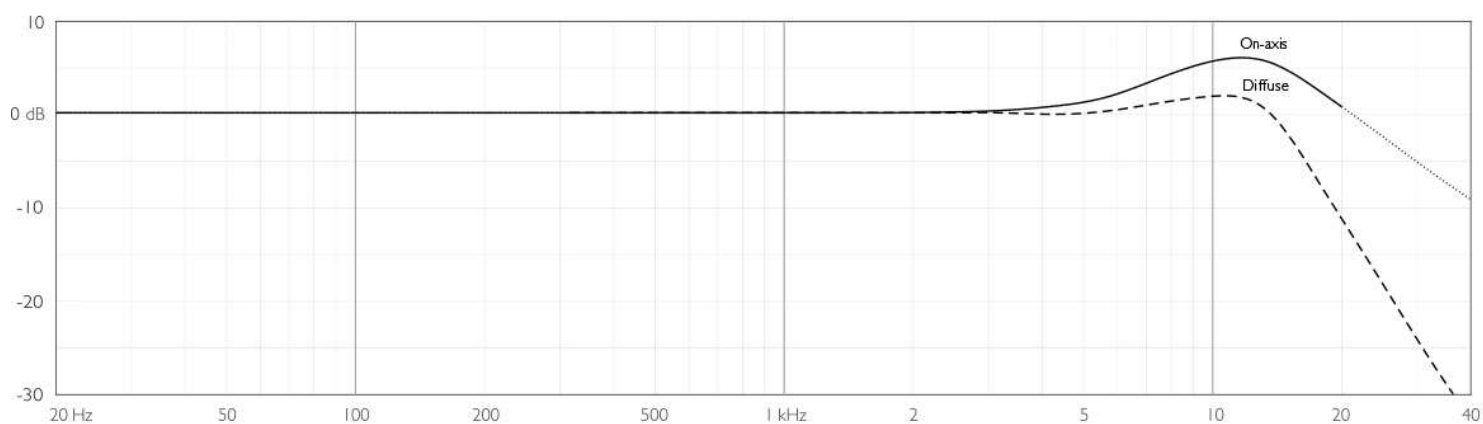
Color	Matte black
Weight	163 g (5.7 oz)
Microphone diameter	16 - 19 mm (0.6 - 0.75 in)
Capsule diameter	16 mm (0.6 in)
Microphone length	170 mm (6.7 in)
Maximum output voltage, RMS	8 V
Polarity	+V at pin 2 for positive sound pressure
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90 %
Matching tolerance (frequency response and sensitivity)	±0.5 dB
Phase deviation for kit	< 5°



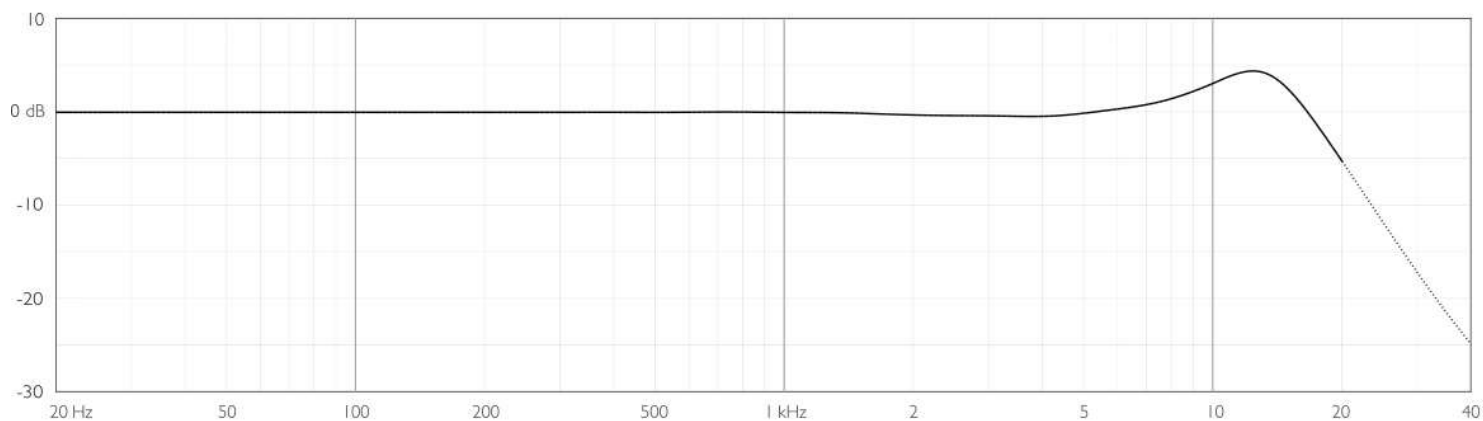
Typical on and off-axis response of a DPA 4006A Omnidirectional Microphone



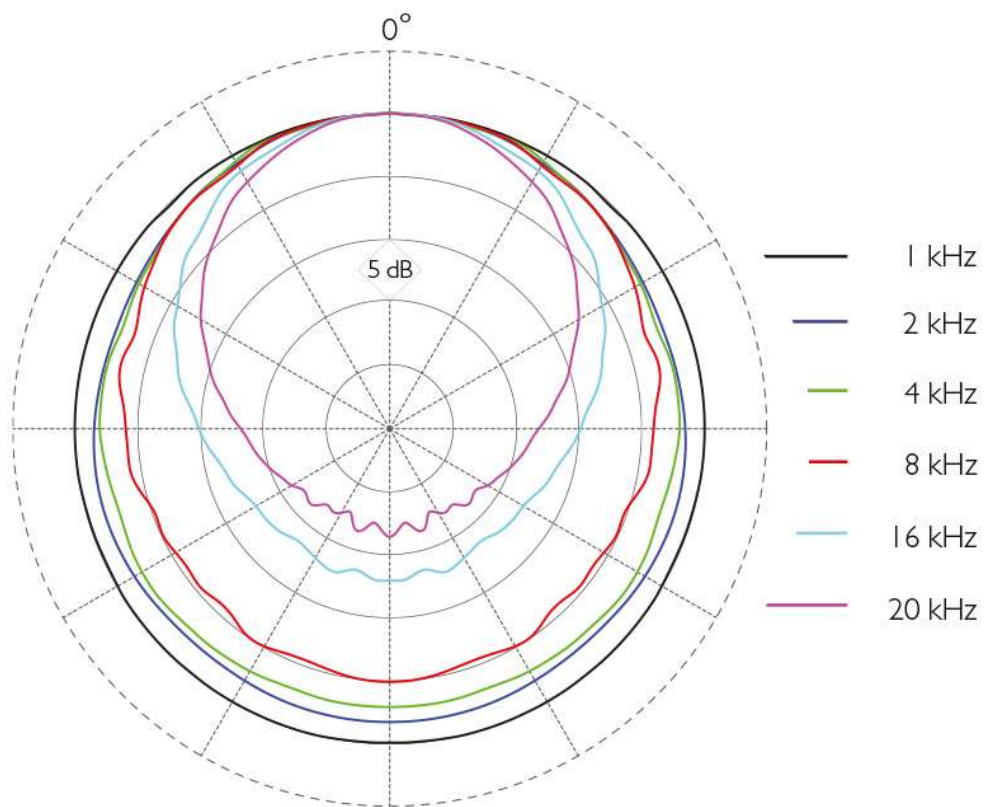
Typical on-axis response of a 4006A with the trapezoid Close-miking Grid DD245



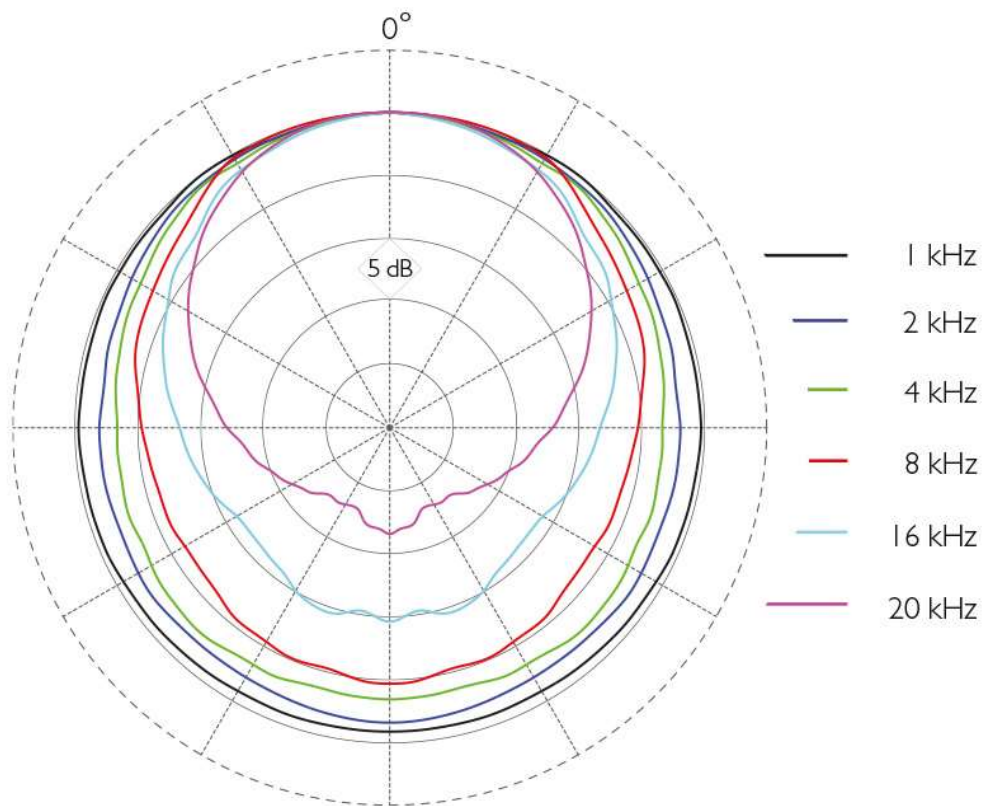
Typical on-axis response of a 4006A with the black Diffuse-field Grid DD297



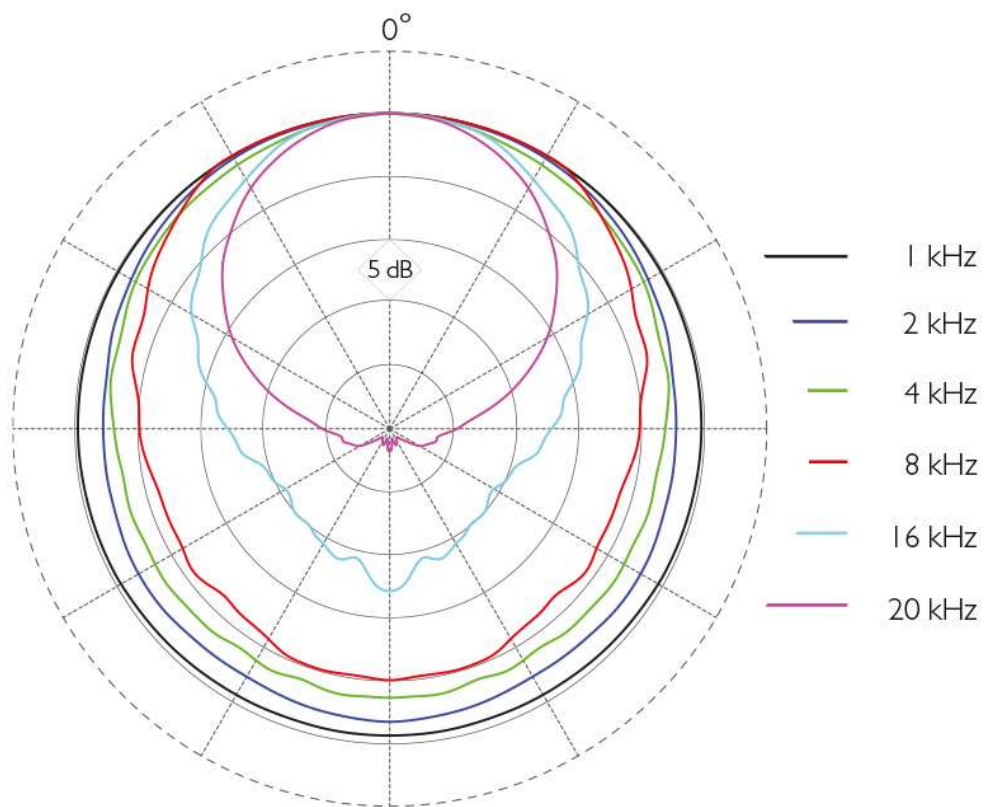
Typical on-axis response of a 4006A with Nose Cone AU0777



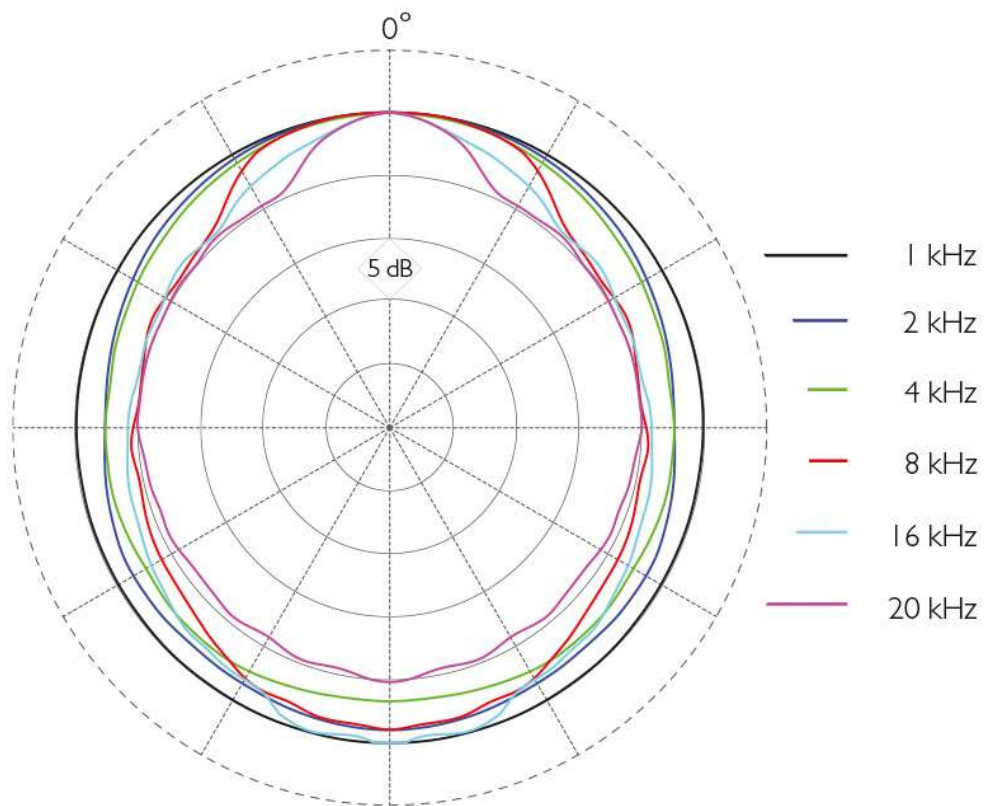
Typical directional characteristics of a 4006A



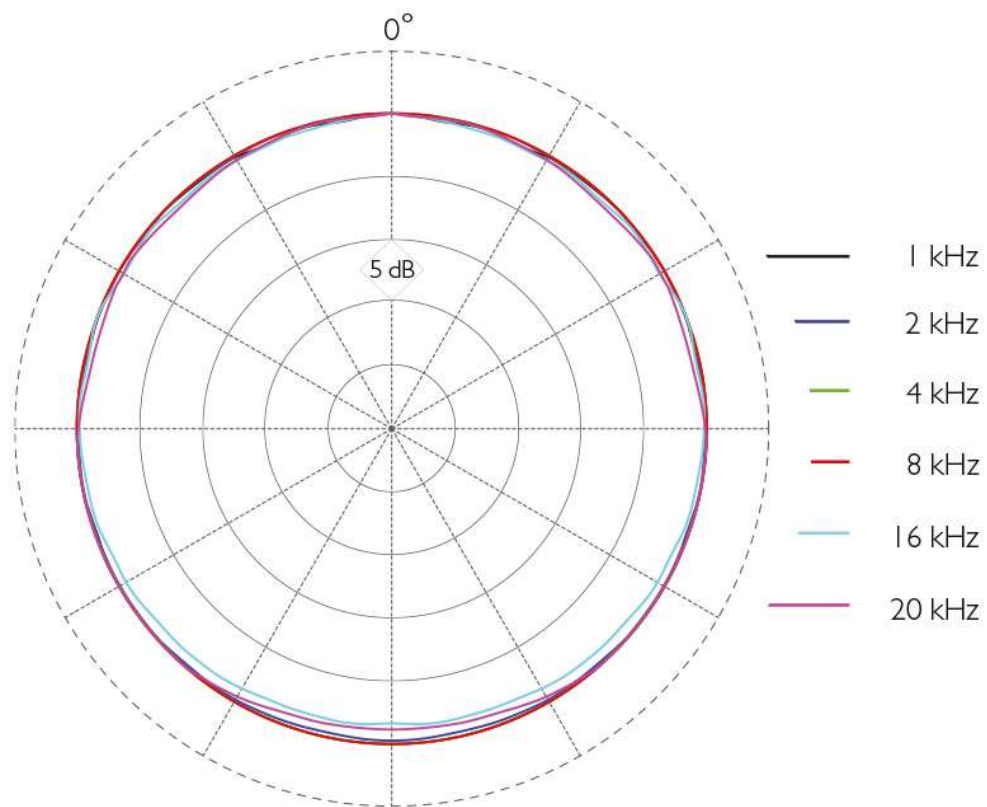
Typical directional characteristics of a 4006A with the trapezoid Close-miking Grid DD245 (Normalized)



Typical directional characteristics of a 4006A with the black Diffuse-field Grid DD297 (Normalized)



Typical directional characteristics of a 4006A with Nose Cone AU0777 (Normalized)



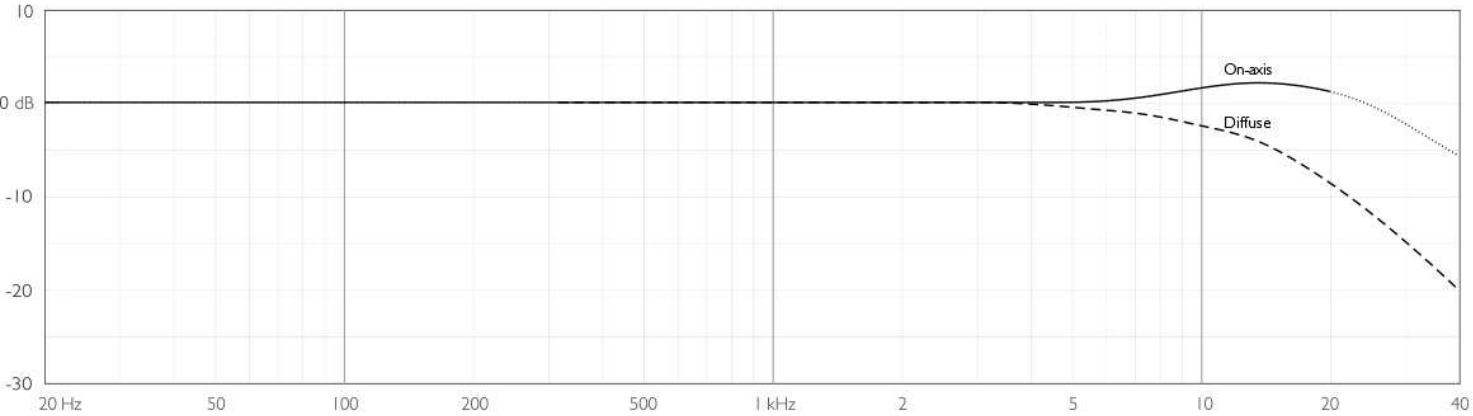
Typical directional characteristics of a 4006A with Nose Cone AU0777, vertical microphone orientation (Normalized)



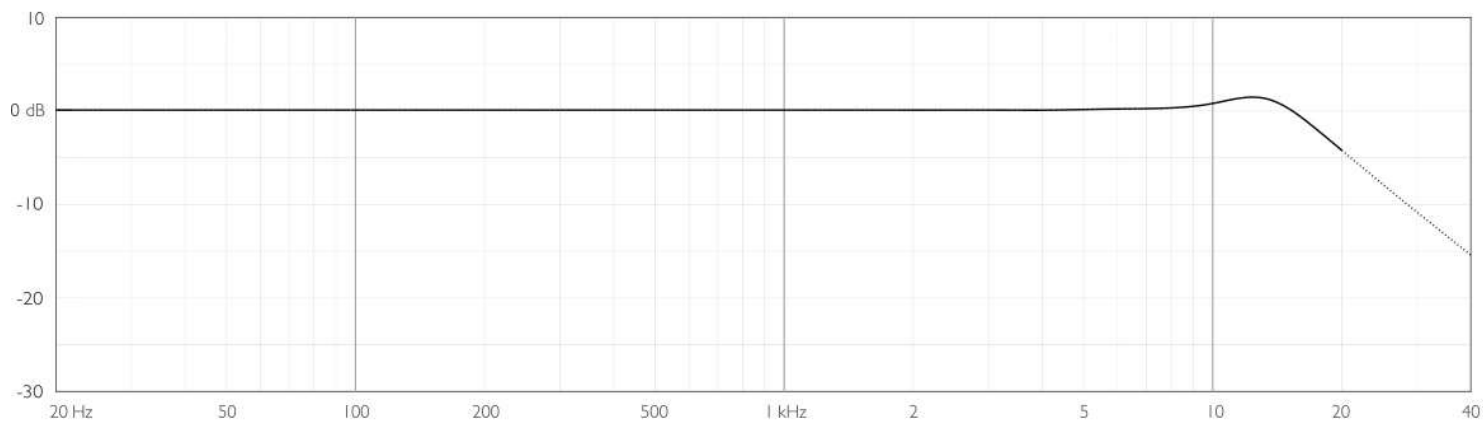
Specifications - 4006C

Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	10 Hz - 20 kHz
Effective frequency range ± 2 dB	20 Hz - 20 kHz
Sensitivity, nominal, ± 2 dB at 250 Hz	S/N up to 3170324: 40 mV/Pa; -28 dB re. 1 V/Pa S/N from 3170325: 36 mV/Pa; -28,9 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 15 dB(A) re. 20 μ Pa (max. 17 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 27 dB (max. 29 dB)
Distortion, THD < 1%	S/N up to 3170324: 131 dB SPL RMS, 134 dB SPL peak S/N from 3170325: 128 dB SPL RMS, 131 dB SPL peak
Dynamic range	S/N up to 3170324: Typ. 119 dB S/N from 3170325: Typ. 116 dB
Max. SPL, THD 10%	139 dB SPL peak
Rated output impedance	100 Ω
Minimum load impedance	2 k Ω
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balancing with Active Drive
Common mode rejection ratio (CMRR) > 50 dB	

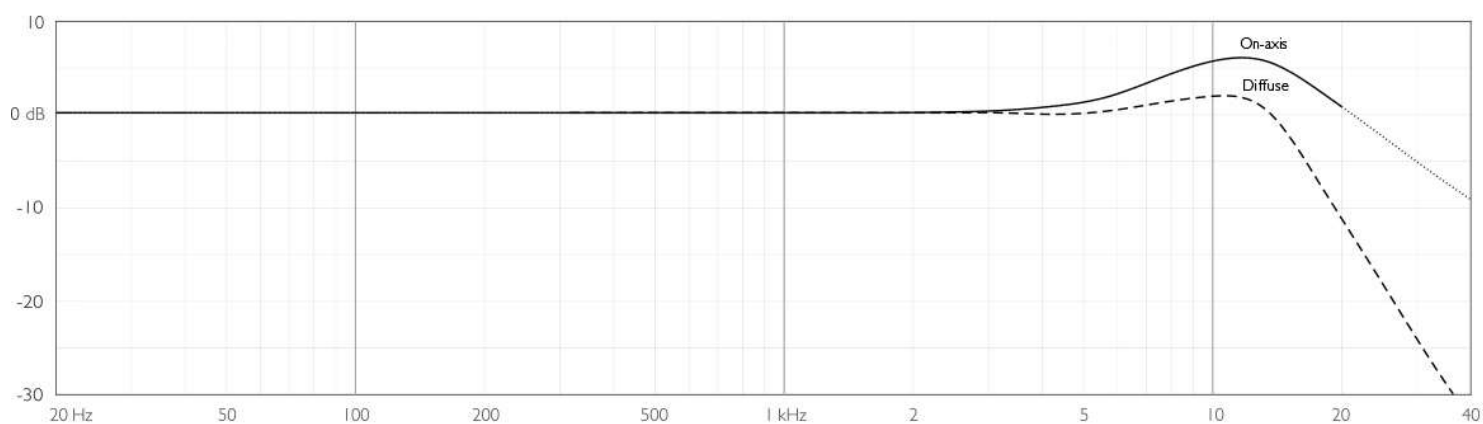
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	2.8 mA
Connector	XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase
Color	Matte black
Weight	63 g (2.2 oz)
Microphone diameter	16 - 19 mm (0.6 - 0.75 in)
Capsule diameter	16 mm (0.6 in)
Microphone length	64 mm (2.5 in)
Maximum output voltage, RMS	4.5 V
Polarity	+V at pin 2 for positive sound pressure
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%
Matching tolerance (frequency response and sensitivity)	±0.5 dB
Phase deviation for kit	< 5°



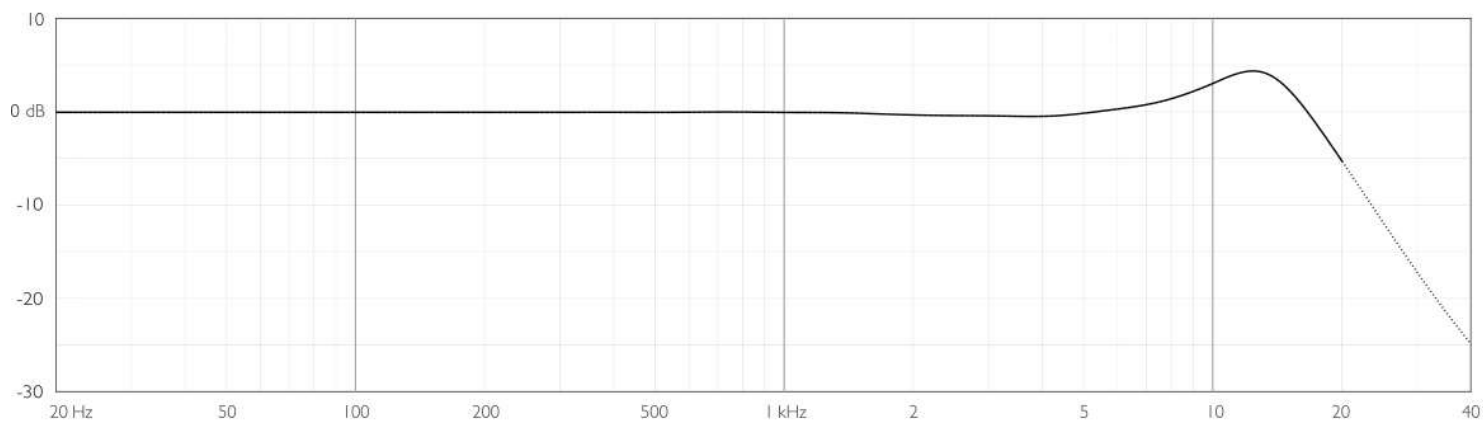
Typical on and off-axis response of a DPA 4006C Omnidirectional Microphone



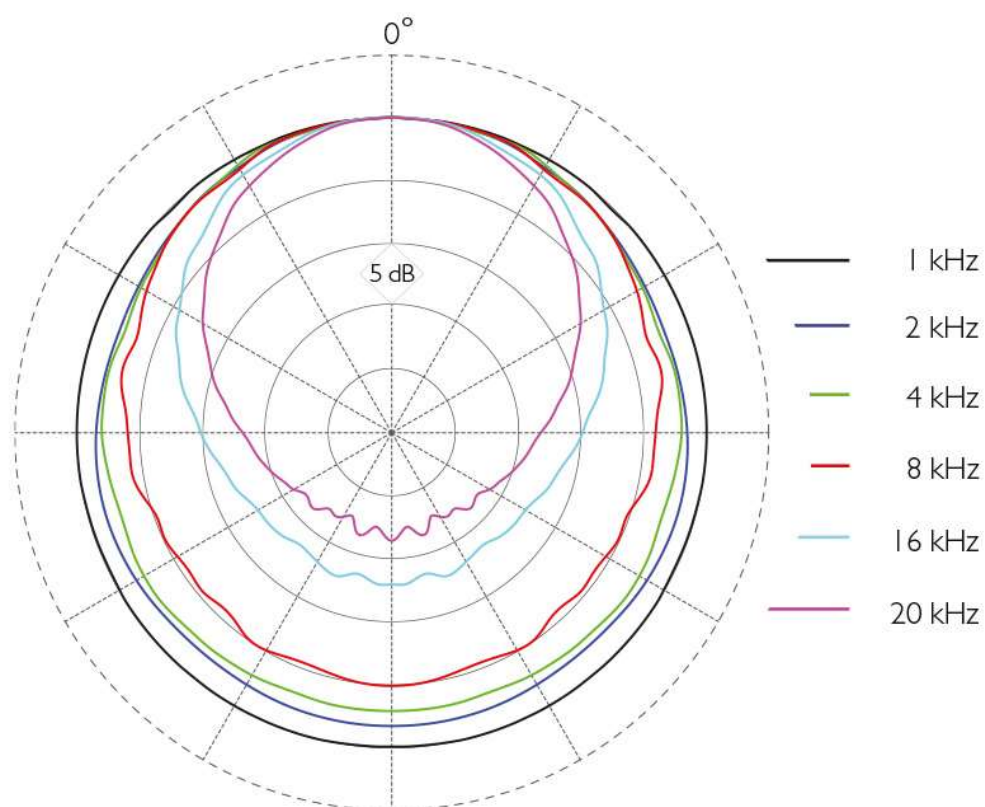
Typical on-axis response of a 4006C with the trapezoid Close-miking Grid DD245



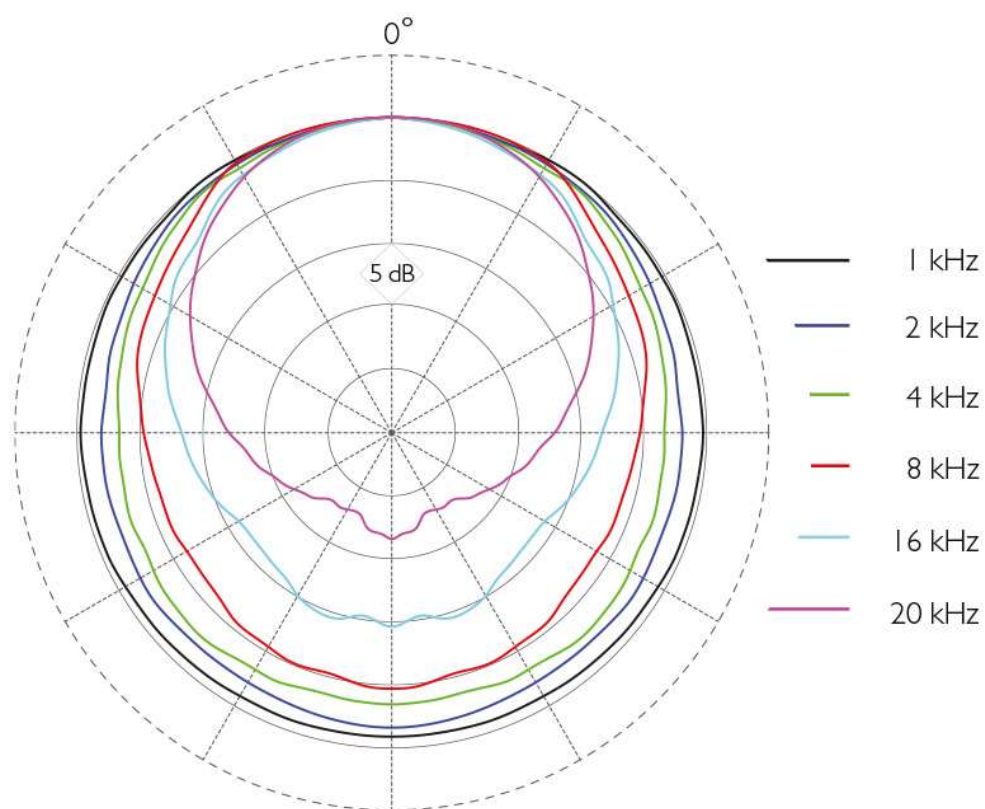
Typical on-axis response of a 4006A with the black Diffuse-field Grid DD297



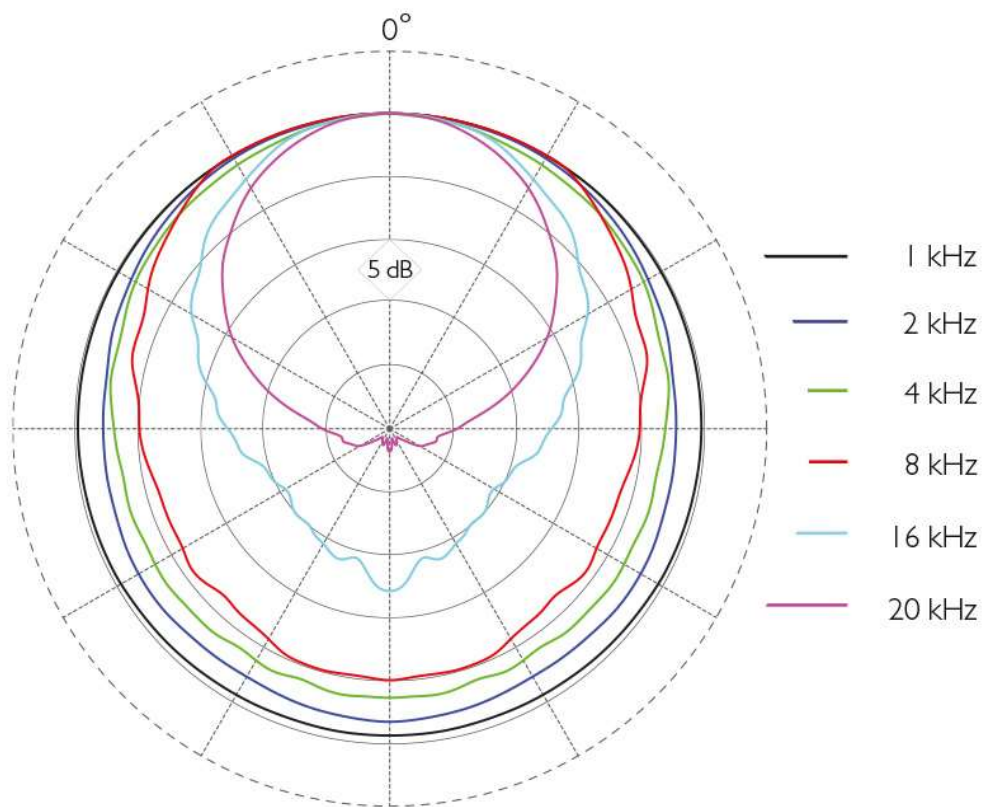
Typical on-axis response of a 4006C with Nose Cone AU0777



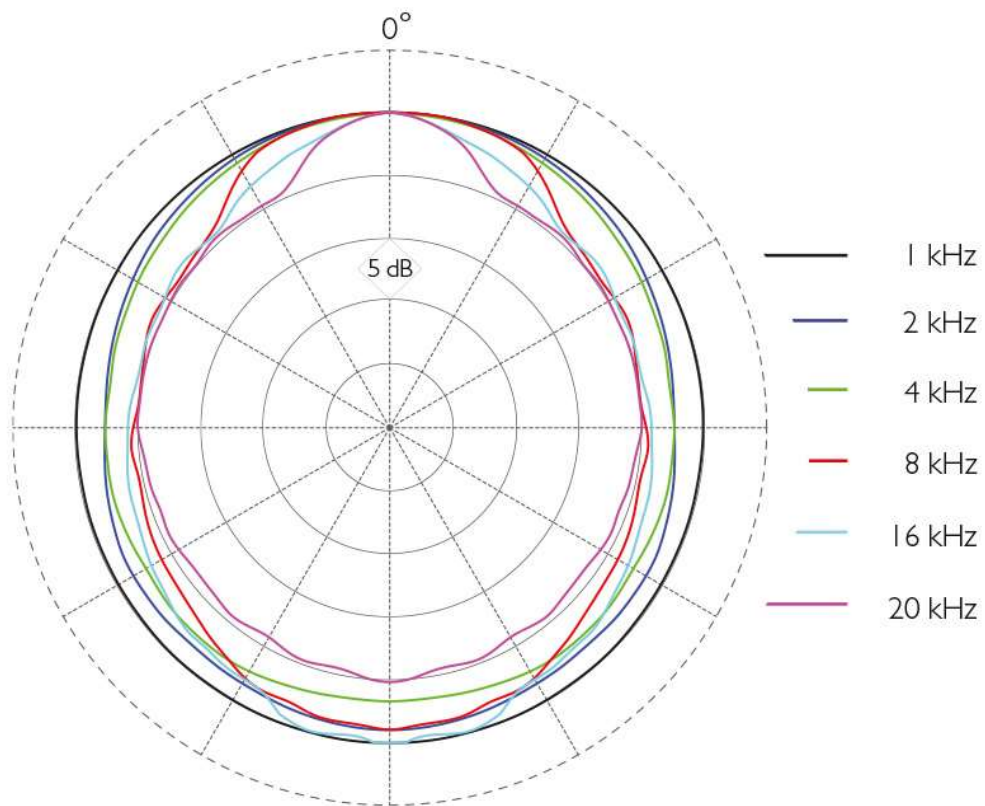
Typical directional characteristics of a 4006C



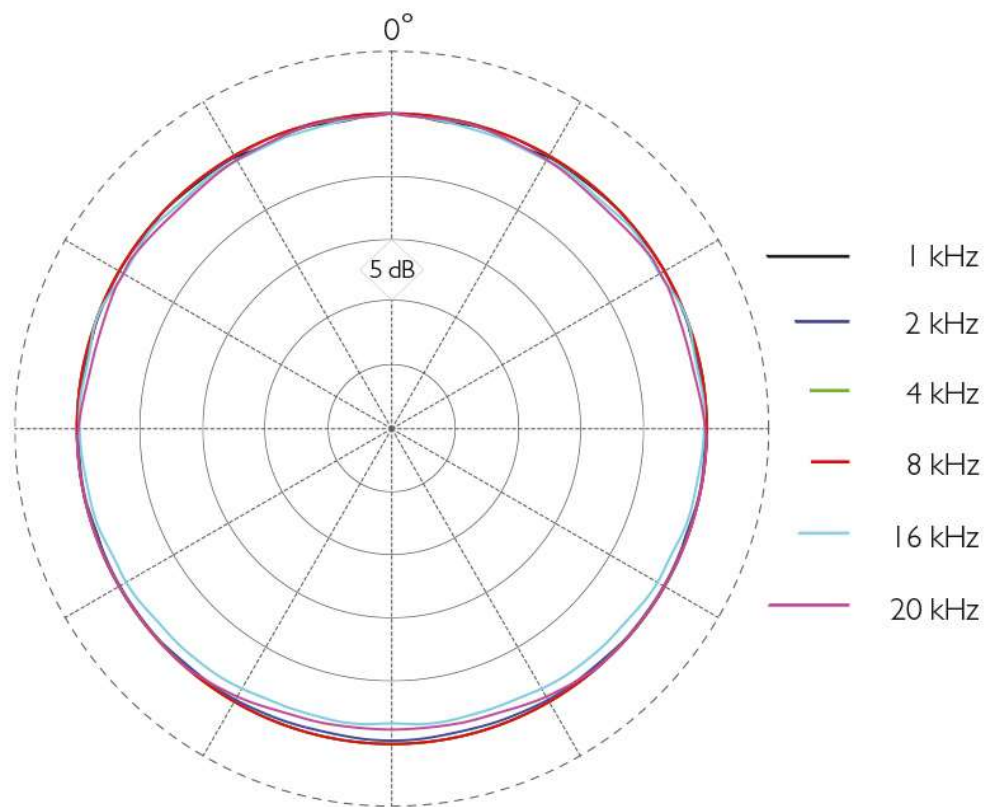
Typical directional characteristics of a 4006C with the trapezoid Close-miking Grid DD245 (Normalized)



Typical directional characteristics of a 4006C with the black Diffuse-field Grid DD297 (Normalized)



Typical directional characteristics of a 4006C with Nose Cone AU0777 (Normalized)



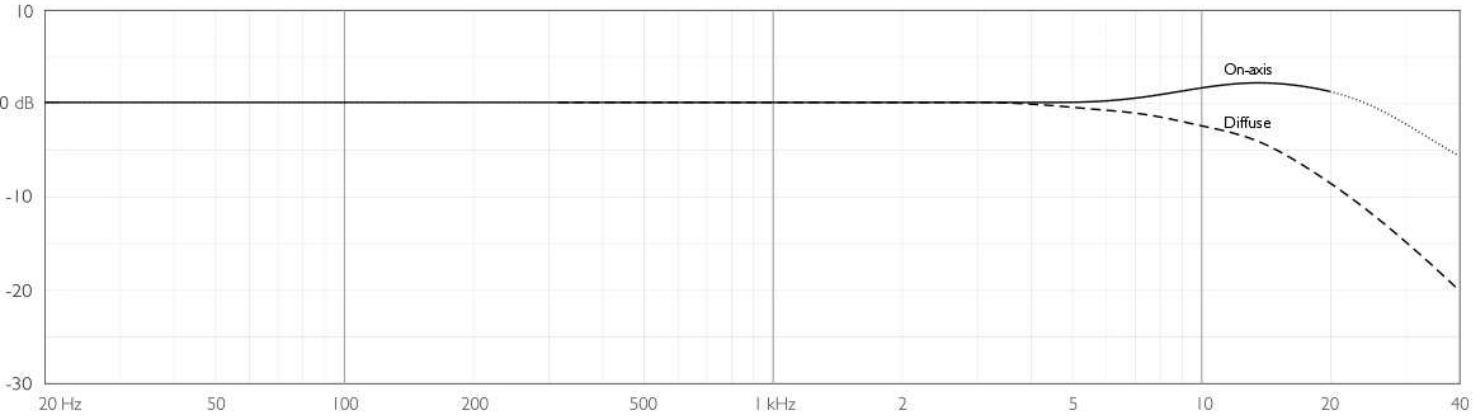
Typical directional characteristics of a 4006C with Nose Cone AU0777, vertical microphone orientation (Normalized)



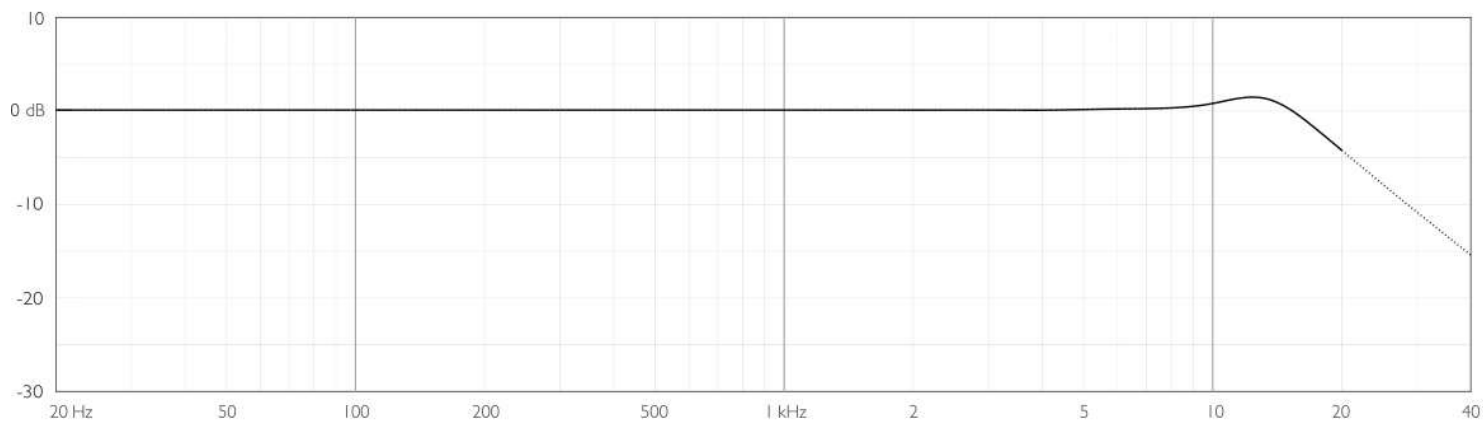
Specifications - 4006ER/ES

Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	10 Hz - 20 kHz
Effective frequency range ± 2 dB	20 Hz - 20 kHz
Sensitivity, nominal, ± 2 dB at 250 Hz	S/N up to 3170324: 40 mV/Pa; -28 dB re. 1 V/Pa S/N from 3170325: 36 mV/Pa; -28,9 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 15 dB(A) re. 20 μ Pa (max. 17 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 27 dB (max. 29 dB)
Distortion, THD < 1%	S/N up to 3170324: 129 dB SPL RMS, 132 dB SPL peak S/N from 3170325: 126 dB SPL RMS, 129 dB SPL peak
Dynamic range	S/N up to 3170324: Typ. 117 dB S/N from 3170325: Typ. 114 dB
Max. SPL, THD 10%	132 dB SPL peak
Rated output impedance	100 Ω
Minimum load impedance	2 k Ω
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balancing
Common mode rejection ratio (CMRR) > 40 dB	

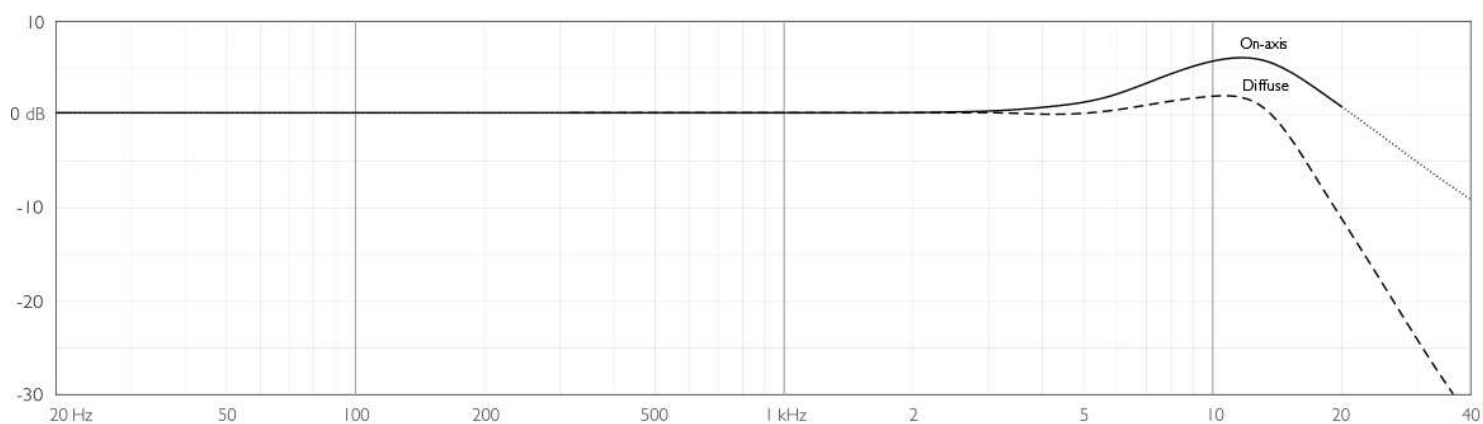
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	3.5 mA
Connector	XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase
Color	Matte black
Weight	114 g (4 oz)
Microphone diameter	16 - 19 mm (0.6 - 0.75 in)
Capsule diameter	16 mm (0.6 in)
Microphone length	35 mm (1.38 in)
Maximum output voltage, RMS	2.2 V
Polarity	+V at pin 2 for positive sound pressure
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%
Matching tolerance (frequency response and sensitivity)	±0.5 dB
Phase deviation for kit	< 5°



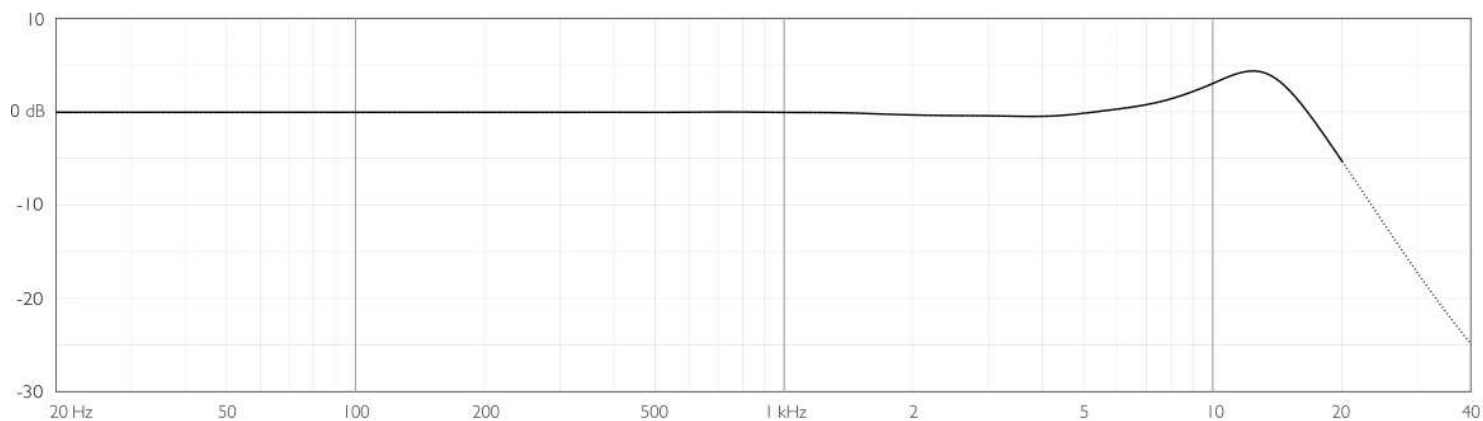
Typical on and off-axis response of a DPA 4006ER/ES Omnidirectional Microphone



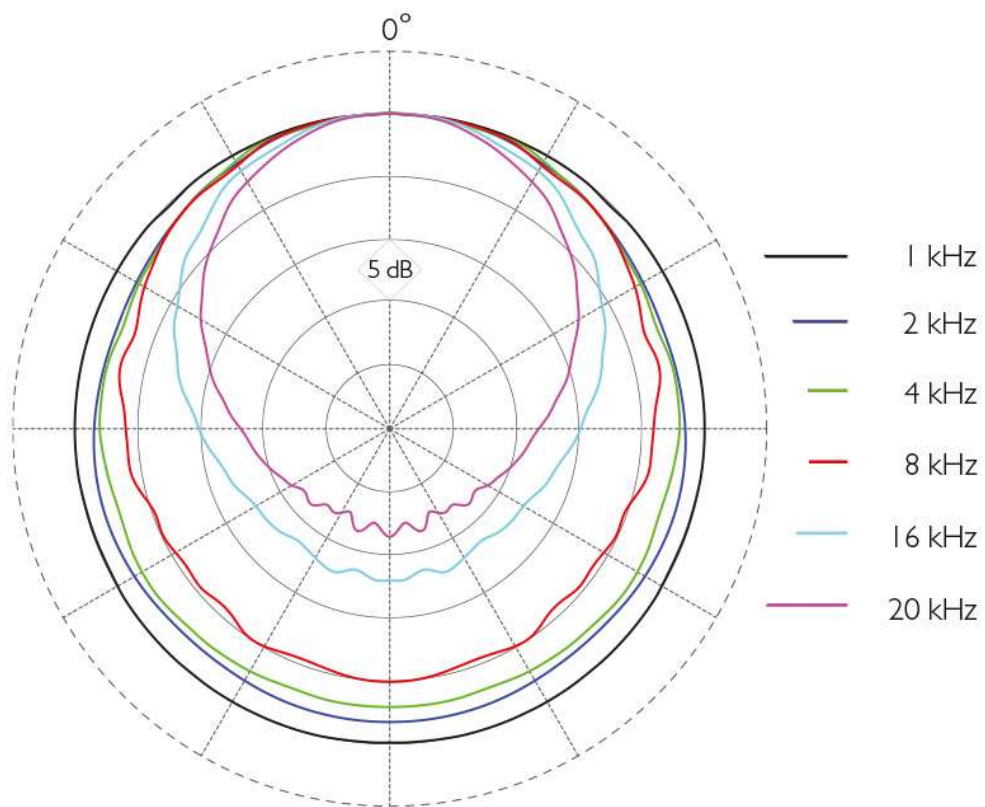
Typical on-axis response of a 4006ER/ES with the trapezoid Close-miking Grid DD245



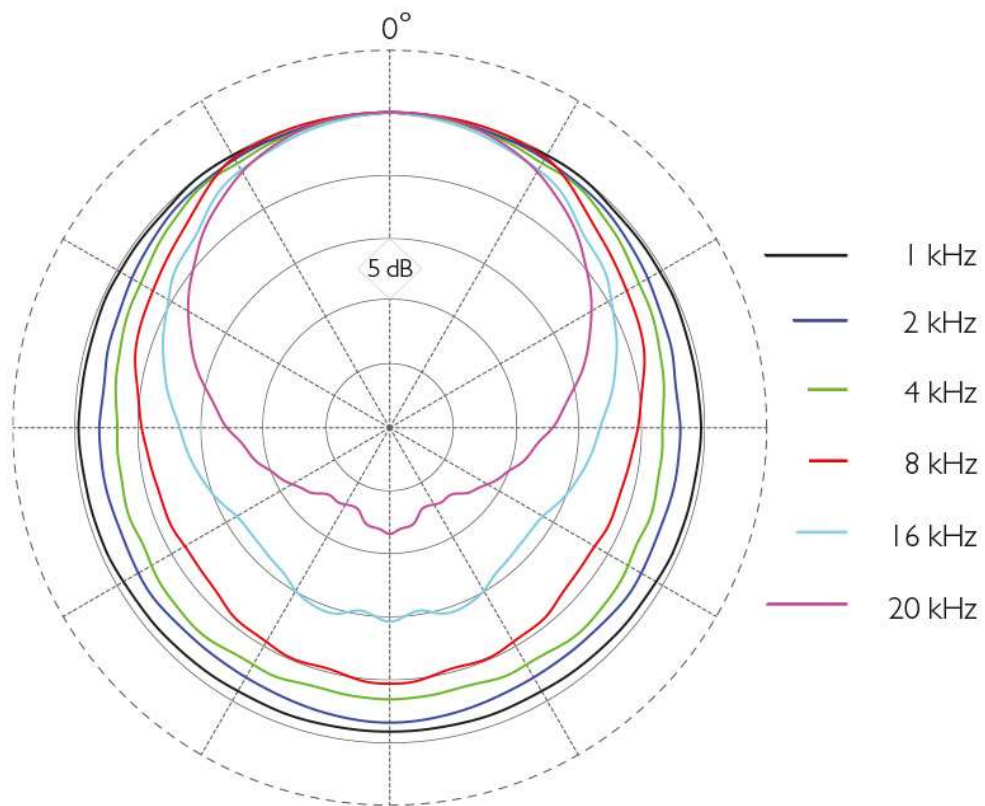
Typical on-axis response of a 4006ER/ES with the black Diffuse-field Grid DD297



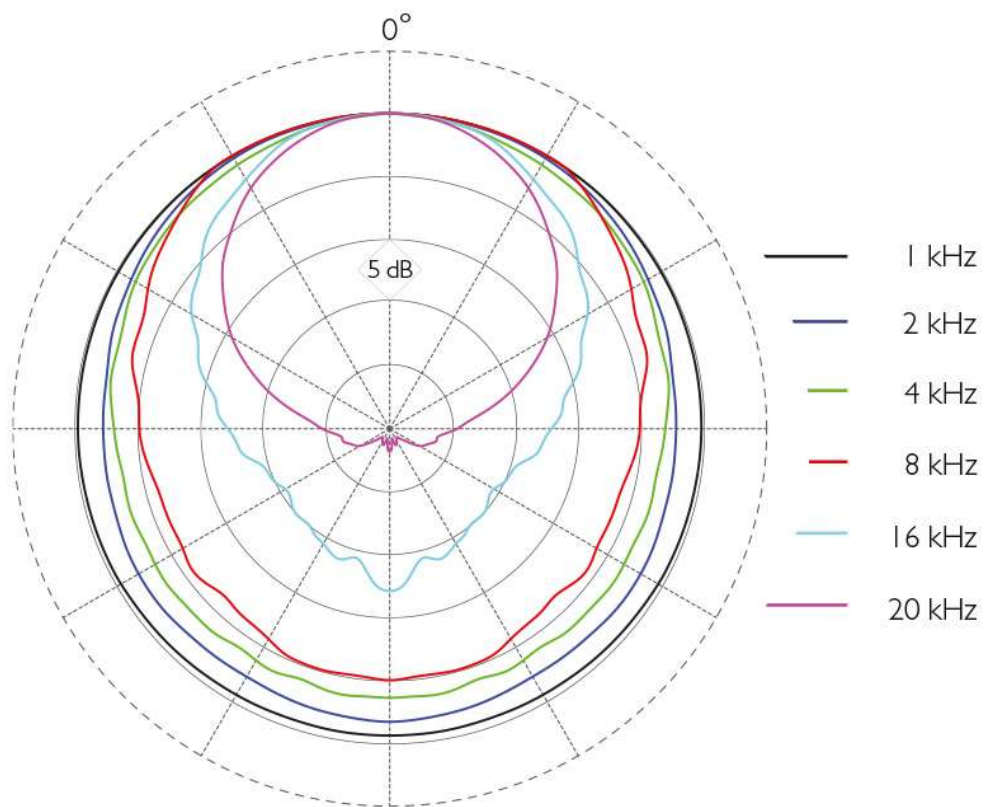
Typical on-axis response of a 4006ER/ES with Nose Cone AU0777



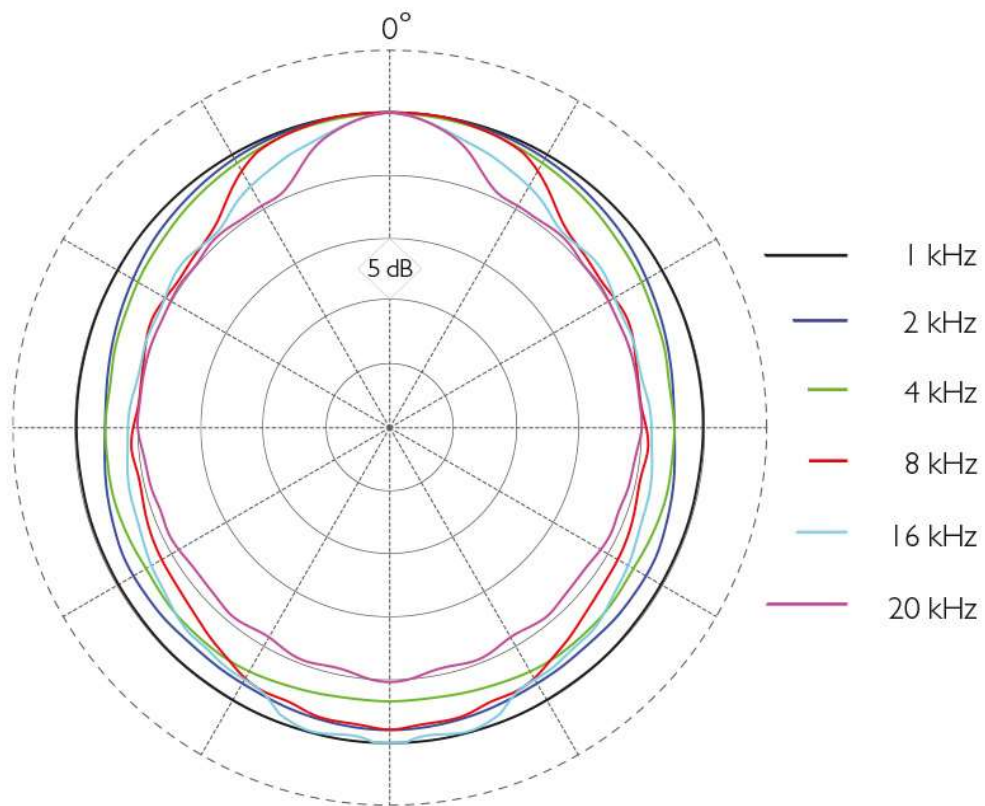
Typical directional characteristics of a 4006ER/ES



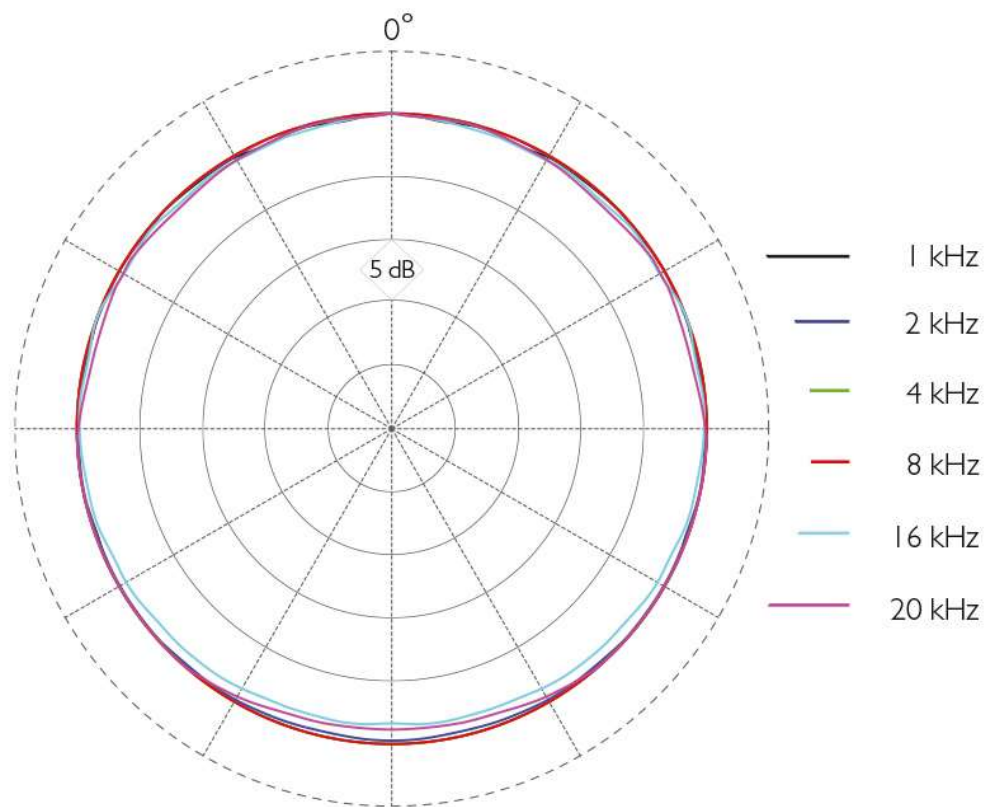
Typical directional characteristics of a 4006ER/ES with the trapezoid Close-miking Grid DD245 (Normalized)



Typical directional characteristics of a 4006ER/ES with the black Diffuse-field Grid DD297 (Normalized)



Typical directional characteristics of a 4006ER/ES with Nose Cone AU0777 (Normalized)



Typical directional characteristics of a 4006ER/ES with Nose Cone AU0777, vertical microphone orientation (Normalized)