



4166 & 4266 Flex Omnidirectional Headset and Earset Microphone

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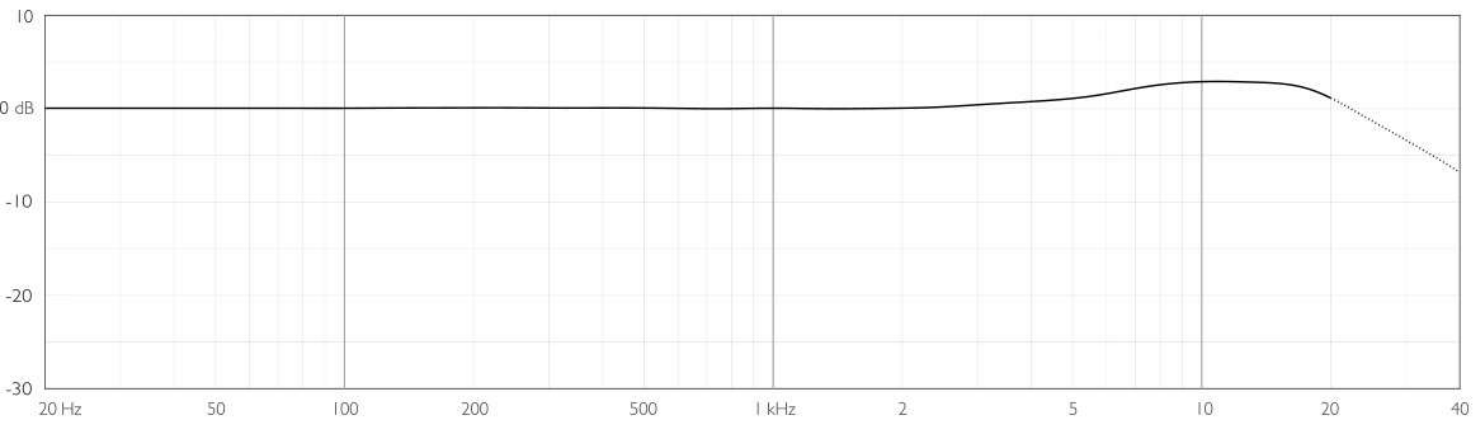
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Specifications - 4166

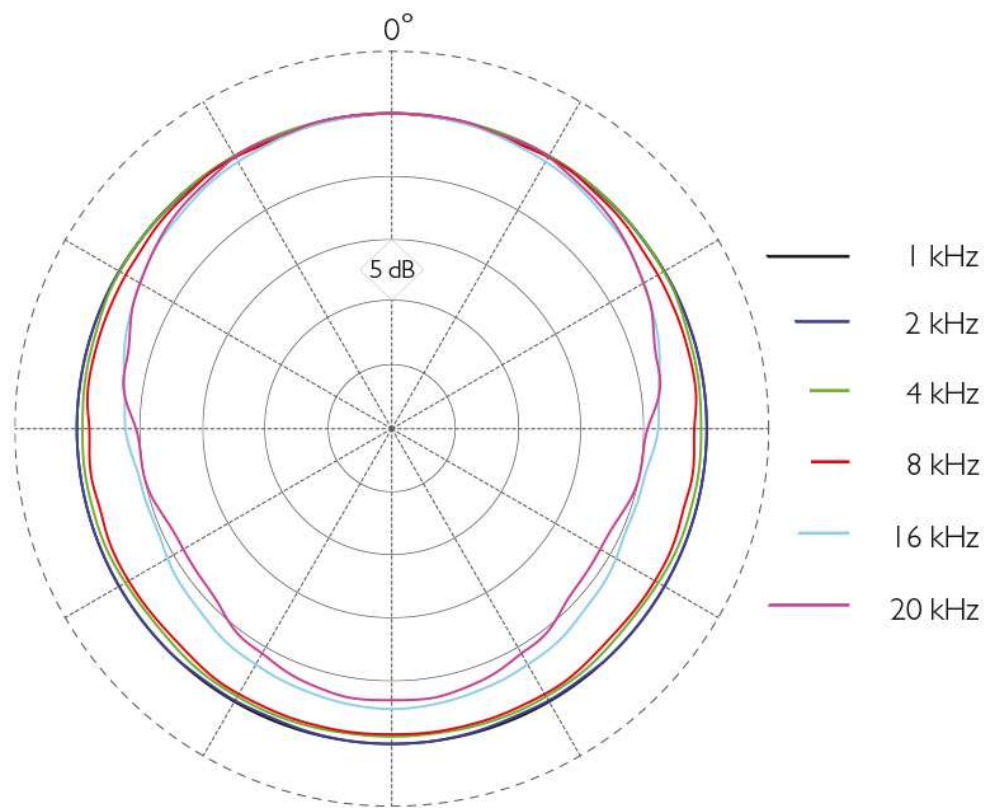
Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz

Effective frequency range ± 2 dB	40 Hz - 20 kHz with 3 dB soft boost at 8 - 15 kHz
Sensitivity, nominal, ± 3 dB at 1 kHz	6 mV/Pa; -44 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)
Distortion, THD < 1% - Legacy	120 dB SPL RMS, 123 dB SPL peak
Distortion, THD < 1% - CORE	134 dB SPL RMS, 137 dB SPL peak
Dynamic range - Legacy	Typ. 97 dB
Dynamic range - CORE	Typ. 111 dB
Max. SPL, THD 10%	144 dB SPL peak
Rated output impedance	30 - 40 Ω
Cable drive capability	Up to 300 m (984 ft) with DAD6001-BC XLR Adapter
Output balance principle	Signal balanced with DAD6001-BC XLR Adapter
Common mode rejection ratio (CMRR)	> 60 dB from 50 Hz to 15 kHz with DAD6001-BC XLR Adapter
Power supply (for full performance)	For wireless systems: Min. 5 V - max. 10 V through DPA adapter With DAD6001-BC: P48 (Phantom Power). Will work from 12 V
Current consumption	Typ. 1.5 mA (microphone). 3.5 mA with DAD6001-BC XLR Adapter
Connector	MicroDot, TA4F Mini-XLR, 3-pin LEMO, Mini-Jack
Color	Black, beige or brown
Weight	Microphone boom: 0.8 g (0.03 oz). Earhook: 1.1 g (0.04 oz). Cable: 6.6 g (0.23 oz). Total: 8.5 g (0.30 oz)
Microphone diameter	5.4 mm (0.21 in)
Microphone length	Boom length: Normal: 120 mm (4.7 in), Medium: 100 mm (3.9 in)
Cable length	1.3 m (4.3 ft)

Cable color	Black, beige or brown
Cable diameter	1.6 mm (0.06 in)
Polarity	Positively increasing sound pressure produces positive going voltage on MicroDot pin
Electromagnetic compatibility (EMC)	Fully compatible
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%



Typical response of a 4166



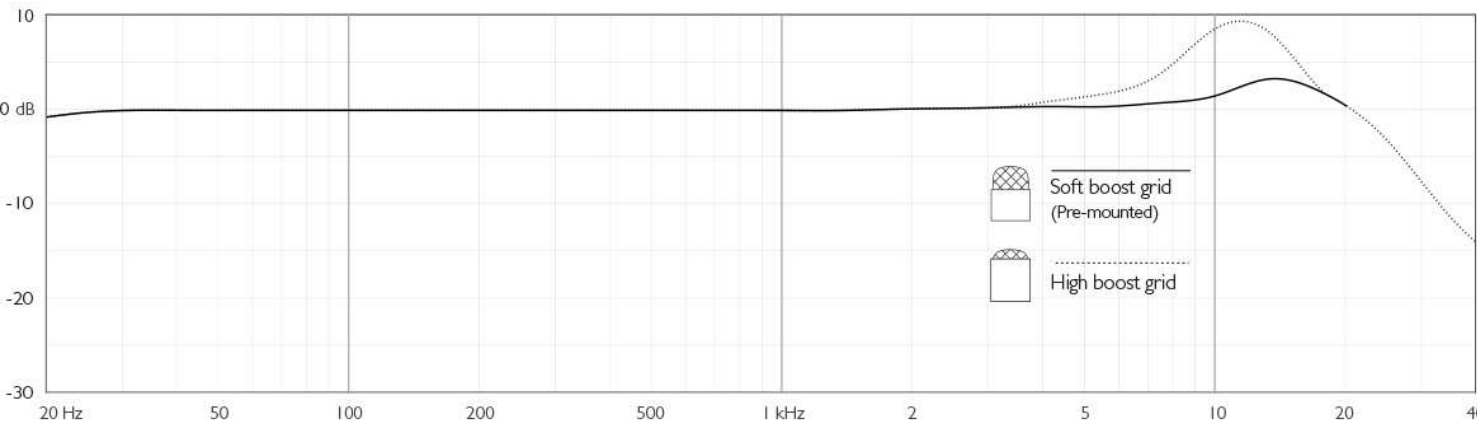
Typical directional characteristics of a 4166



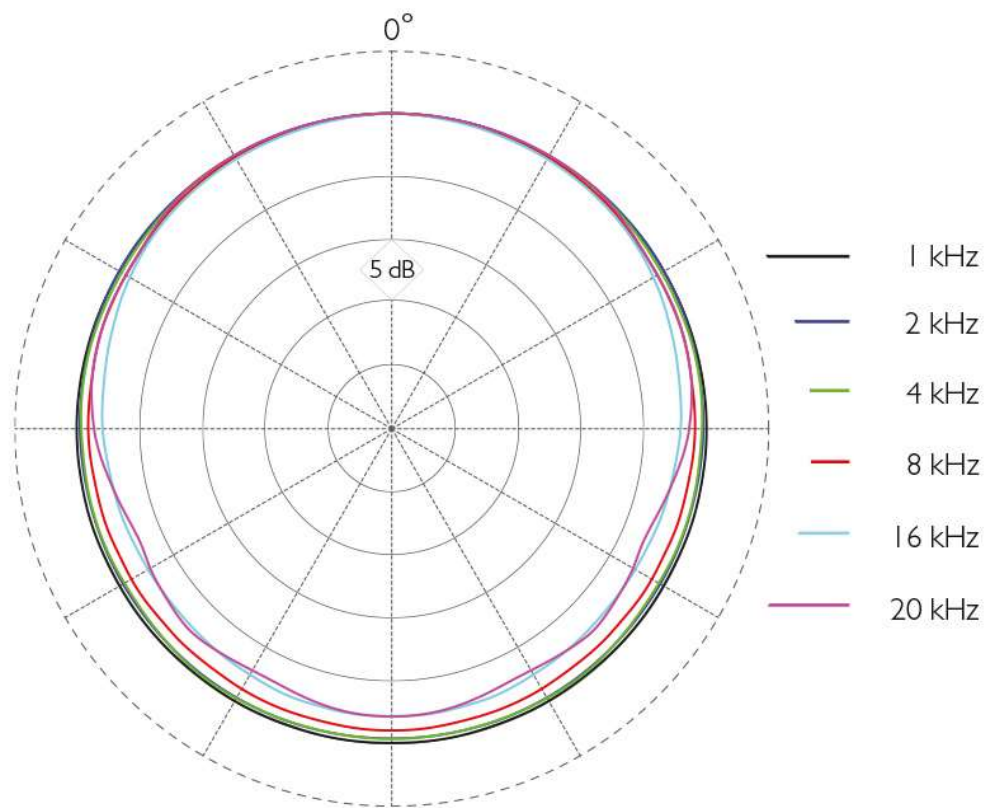
Specifications - 4266

Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz
Effective frequency range ± 2 dB	Soft boost grid: 40 Hz - 20 kHz, 3 dB soft boost at 8 - 20 kHz. High boost grid: 40 Hz - 20 kHz, 10 dB boost at 12 kHz
Sensitivity, nominal, ± 3 dB at 1 kHz	6 mV/Pa; -44 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)
Distortion, THD < 1% - Legacy	120 dB SPL RMS, 123 dB SPL peak
Distortion, THD < 1% - CORE	134 dB SPL RMS, 137 dB SPL peak
Dynamic range - Legacy	Typ. 97 dB
Dynamic range - CORE	Typ. 111 dB
Max. SPL, THD 10%	144 dB SPL peak
Rated output impedance	30 - 40 Ω
Cable drive capability	Up to 300 m (984 ft) with DAD6001-BC XLR Adapter
Output balance principle	Signal balanced with DAD6001-BC XLR Adapter
Common mode rejection ratio (CMRR)	> 60 dB from 50 Hz to 15 kHz with DAD6001-BC XLR Adapter
Power supply (for full performance)	For wireless systems: Min. 5 V - max. 10 V through DPA adapter With DAD6001-BC: P48 (Phantom Power). Will work from 12 V
Current consumption	Typ. 1.5 mA (microphone). 3.5 mA with DAD6001-BC XLR Adapter
Connector	MicroDot, TA4F Mini-XLR, 3-pin LEMO, Mini-Jack

Color	Black, beige or brown
Weight	Single Ear: 10 g (0.35 oz)
Microphone diameter	5.4 mm (0.21 in)
Microphone length	12.7 mm (0.5 in)
Cable length	1.3 m (4.3 ft)
Cable color	Black, beige or brown
Cable diameter	1.6 mm (0.06 in)
Polarity	Positively increasing sound pressure produces positive going voltage on MicroDot pin
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%



Typical response of a 4266



Typical directional characteristics of a 4266