



4090 Omnidirectional Microphone

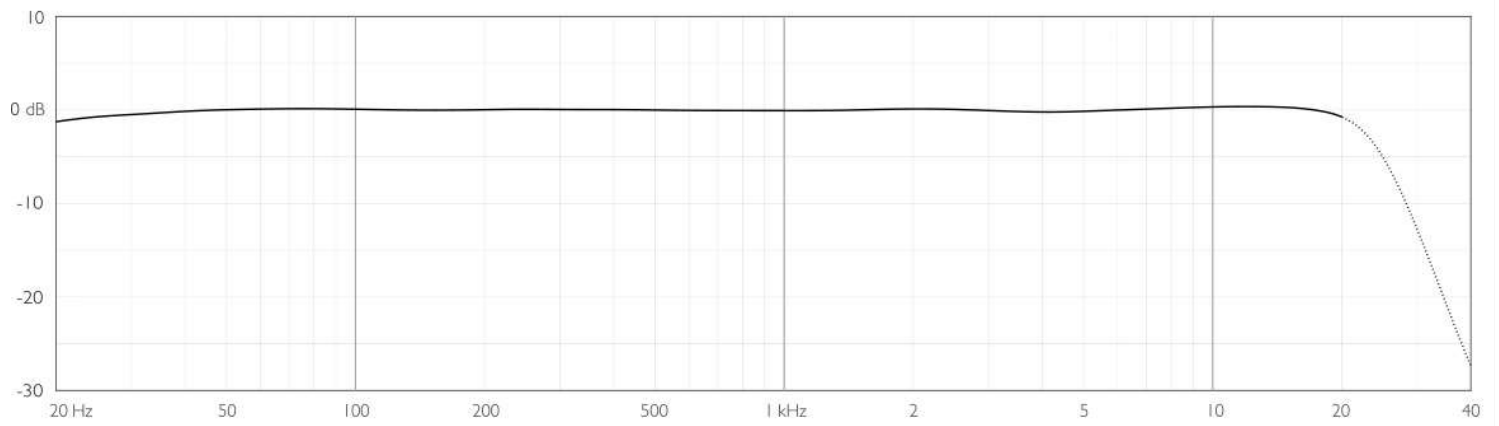
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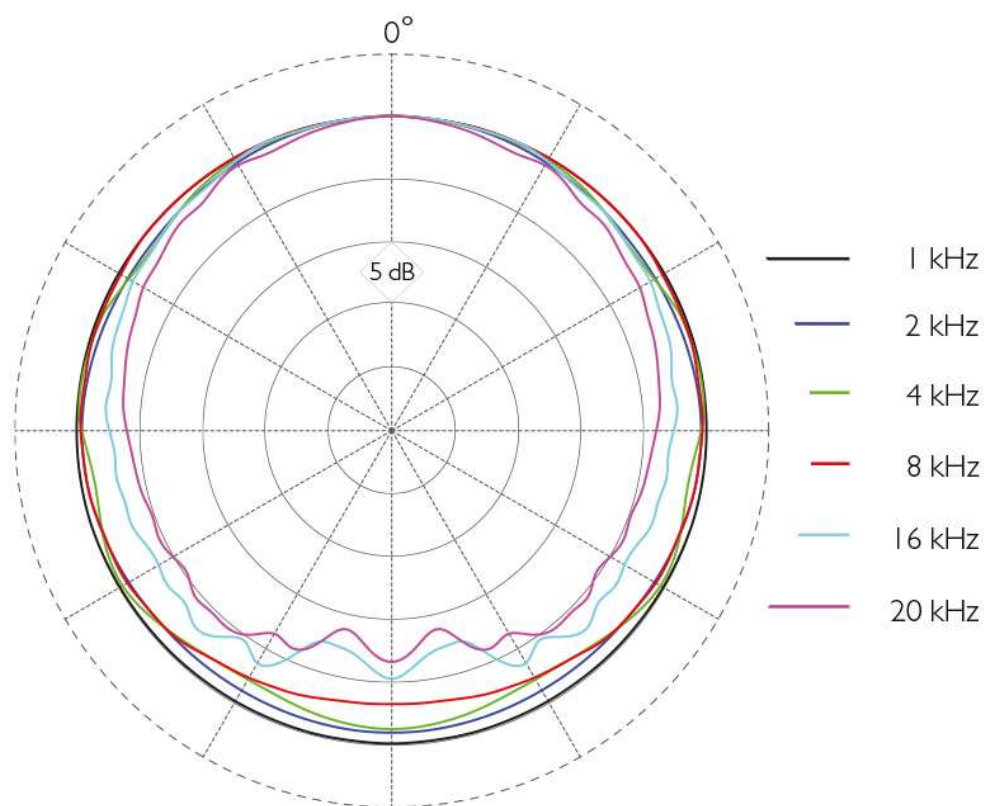
Specifications - 4090

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

Effective frequency range ±2 dB	20 Hz - 20 kHz
Sensitivity, nominal, ±3 dB at 1 kHz	20 mV/Pa; -34 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 35 dB (max. 38 dB)
Distortion, THD < 1%	120 dB SPL RMS, 123 dB SPL peak
Dynamic range	Typ. 100 dB
Max. SPL, THD 10%	134 dB SPL peak
Rated output impedance	< 40 Ω
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balanced
Common mode rejection ratio (CMRR)	> 40 dB
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	2 mA
Connector	3-pin XLR-M
Color	Black
Weight	38 g (1.34 oz)
Microphone diameter	19 mm (0.75 in); at tip 6.7 mm (0.26 in)
Microphone length	122 mm (4.8 in)
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%



Typical on and off-axis response of a 4090



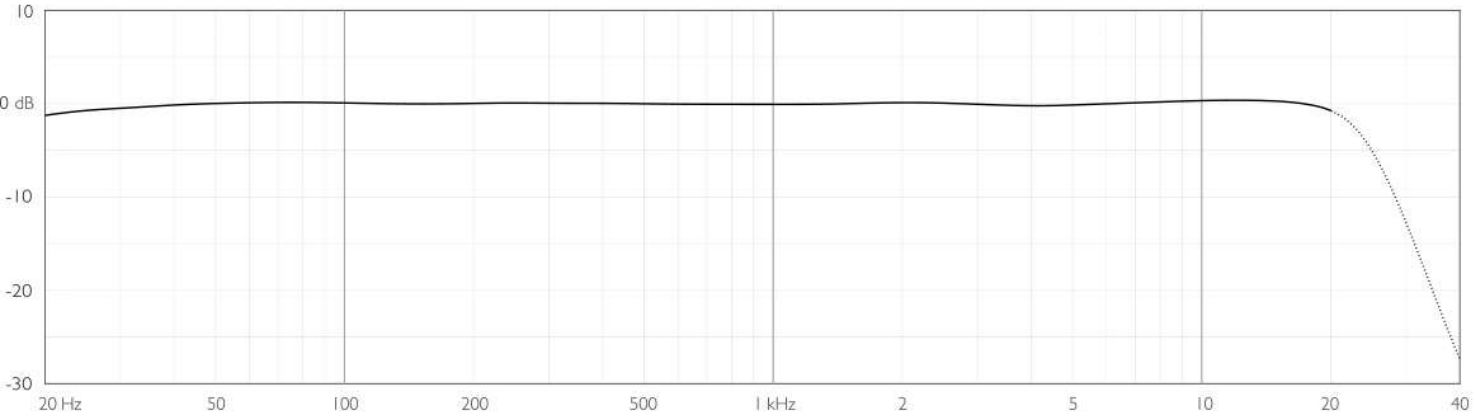
Typical directional characteristics of a 4090



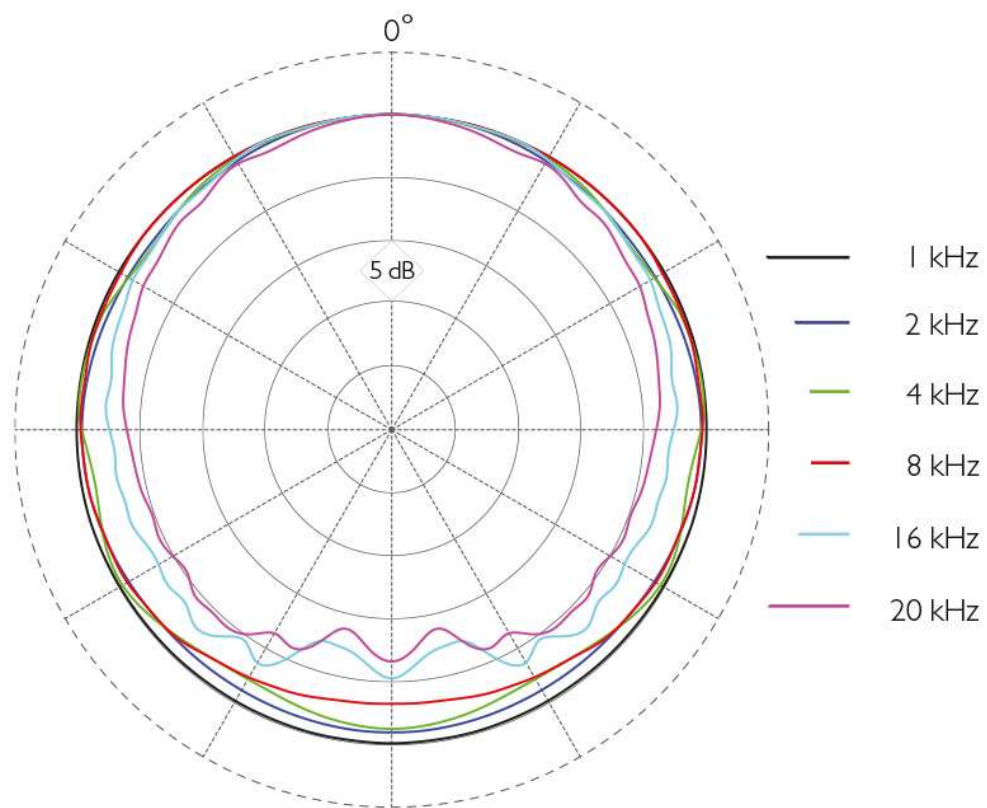
Specifications - 4091

Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz
Effective frequency range ± 2 dB	20 Hz - 20 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%	120 dB SPL RMS, 123 dB SPL peak
Dynamic range	Typ. 97 dB
Max. SPL, THD 10%	144 dB SPL peak

Rated output impedance	< 40 Ω
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balanced
Common mode rejection ratio (CMRR)	> 40 dB
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	2 mA
Connector	3-pin XLR-M
Color	Black
Weight	38 g (1.34 oz)
Microphone diameter	19 mm (0.75 in); at tip 6.7 mm (0.26 in)
Microphone length	122 mm (4.8 in)
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%



Typical on and off-axis response of a 4091



Typical directional characteristics of a 4091