2011 Twin Diaphragm Cardioid Microphone

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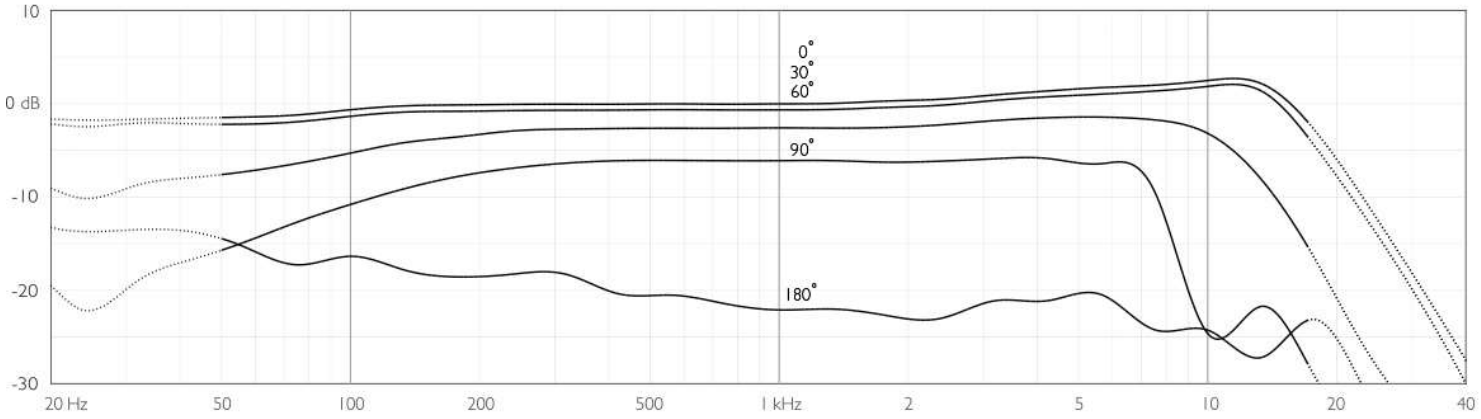
Specifications - 2011A

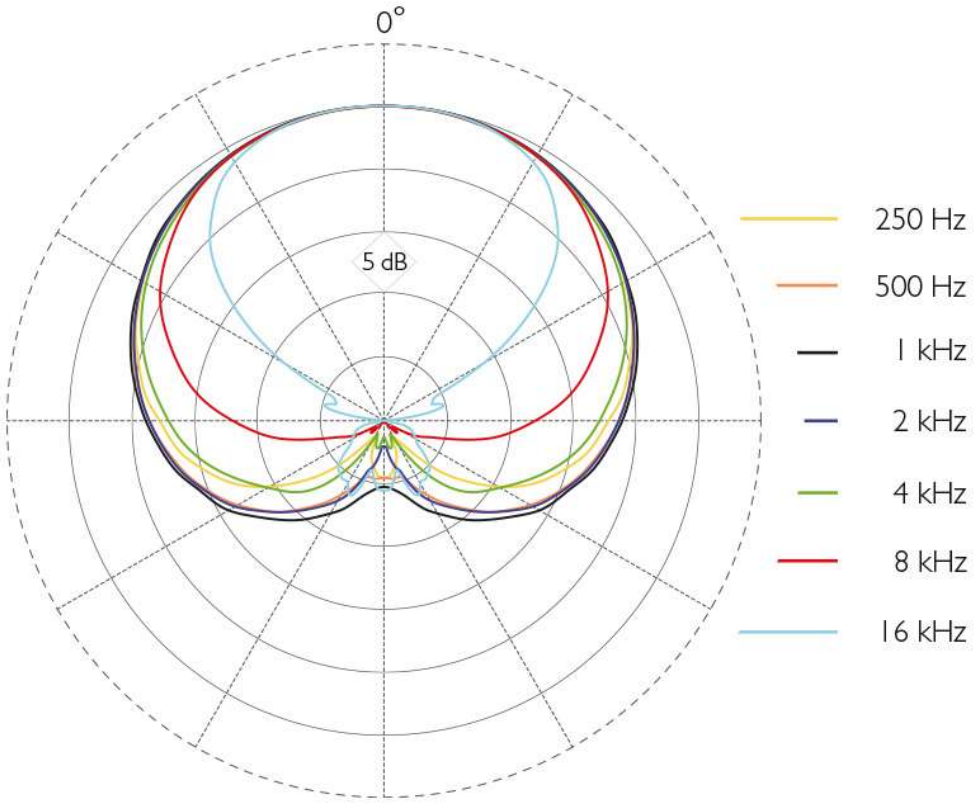
Directional pattern	Cardioid
Principle of operation	Pressure gradient, with interference tube
Cartridge type	Pre-polarized condenser, Twin Diaphragm Capsule

Frequency response	20 Hz - 20 kHz
Effective frequency range, ±2 dB, at 30 cm (11.8 in)	50 Hz - 17 kHz with 3 dB soft boost at 12 kHz
Sensitivity, nominal, ±2 dB at 1 kHz	10 mV/Pa; -40 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 20 dB(A) re. 20 µPa (max. 23 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 33 dB (max. 36 dB)
Distortion, THD < 1%	134 dB SPL RMS, 137 dB SPL peak
Dynamic range	Typ. 117 dB
Max. SPL, THD 10%	153 dB SPL peak
Switchable attenuator, filters etc.	0 dB / -20 dB
Rated output impedance	200 Ω
Minimum load impedance	2 kΩ
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	164 g (5.8 oz)
Microphone diameter	19 mm (0.75 in)
Microphone length	198 mm (7.8 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%
Sensitivity selection tolerance (at 1 kHz)	±1.5 dB



Typical on and off-axis response of a DPA 2011A Cardioid Microphone measured at 30 cm (11.8 in)

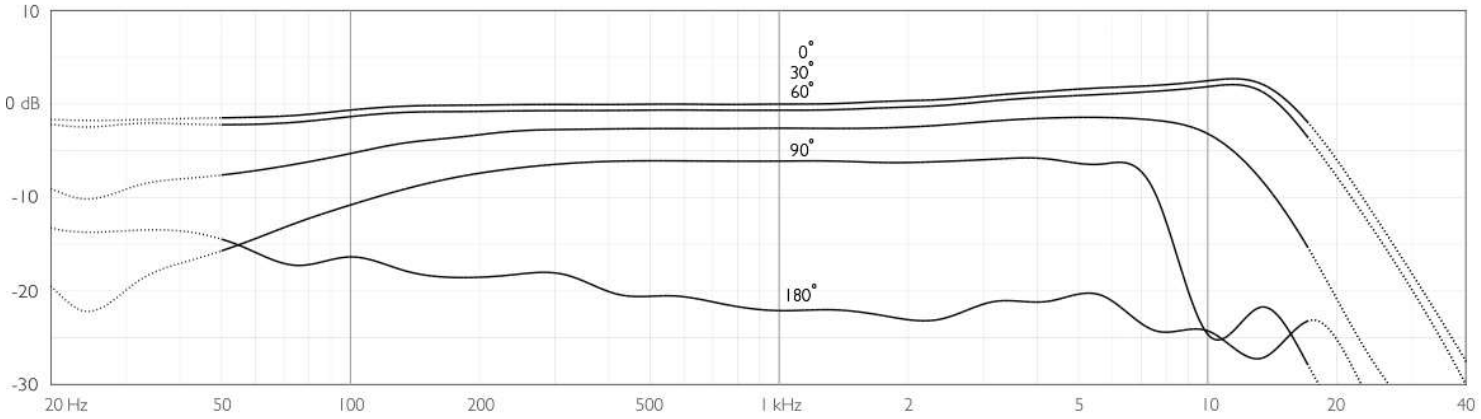


Typical directional characteristics of a DPA 2011A Cardioid Microphone

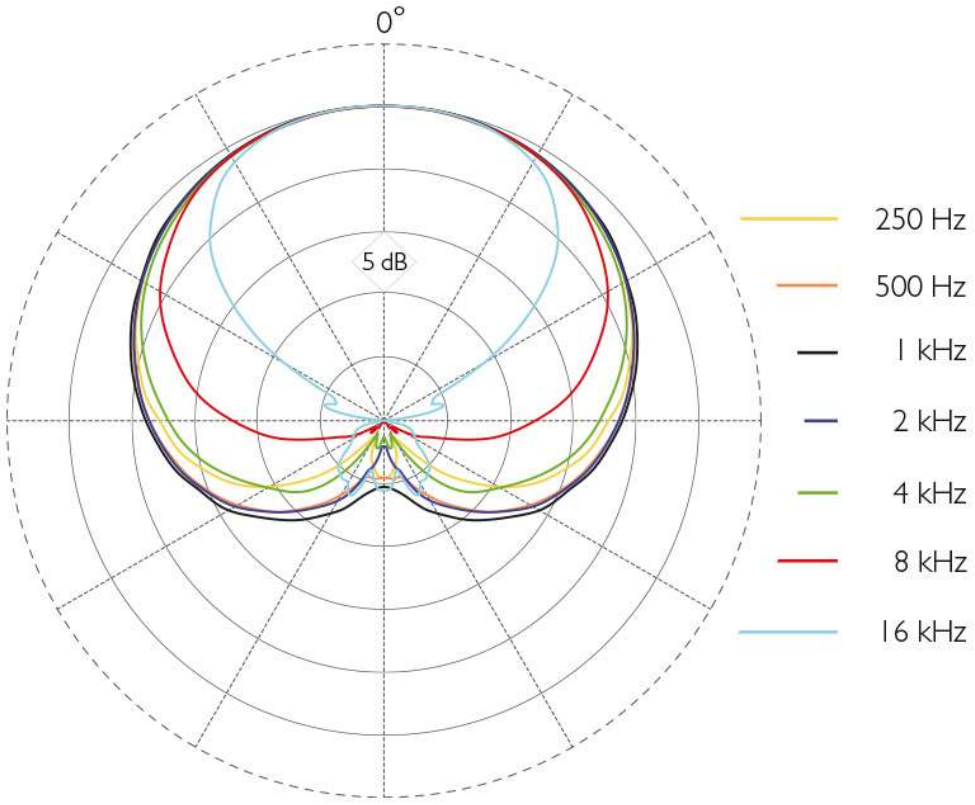
Specifications - 2011C

Directional pattern	Cardioid
Principle of operation	Pressure gradient, with interference tube
Cartridge type	Pre-polarized condenser, Twin Diaphragm Capsule
Frequency response	20 Hz - 20 kHz
Effective frequency range, ±2 dB, at 30 cm (11.8 in)	50 Hz - 17 kHz with 3 dB soft boost at 12 kHz
Sensitivity, nominal, ±2 dB at 1 kHz	10 mV/Pa; -40 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 20 dB(A) re. 20 µPa (max. 23 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 33 dB (max. 36 dB)
Distortion, THD < 1%	134 dB SPL RMS, 137 dB SPL peak

Dynamic range	Typ. 117 dB
Max. SPL, THD 10%	146 dB SPL peak
Rated output impedance	100 Ω
Minimum load impedance	2 kΩ
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	64 g (2.3 oz)
Microphone diameter	19 mm (0.75 in)
Microphone length	92 mm (3.6 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%
Sensitivity selection tolerance (at 1 kHz)	±1.5 dB



Typical on and off-axis response of a DPA 2011C Cardioid Microphone measured at 30 cm (11.8 in)

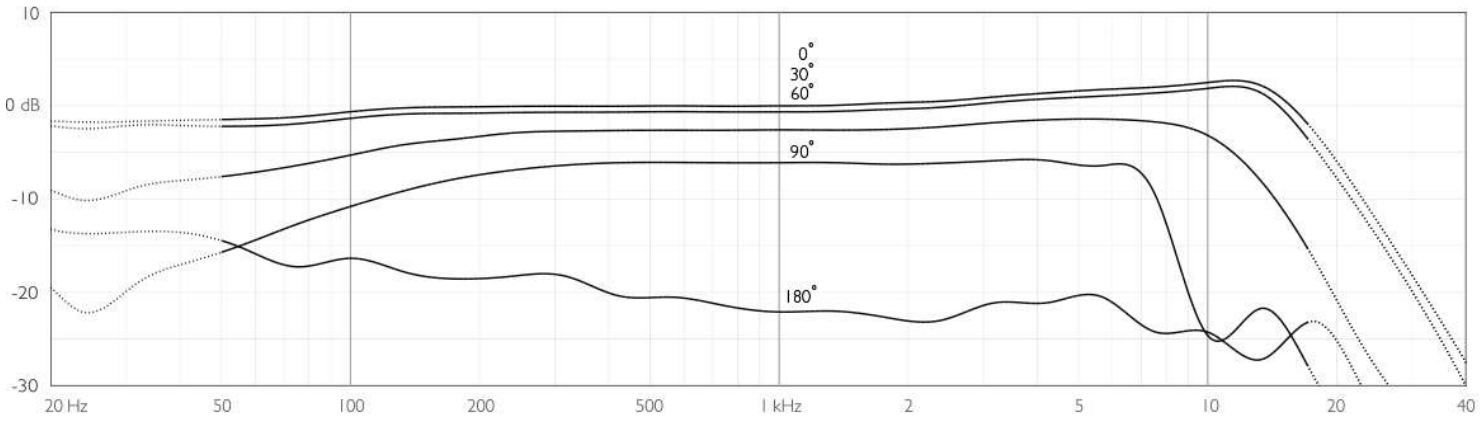


Typical directional characteristics of a DPA 2011C Cardioid Microphone

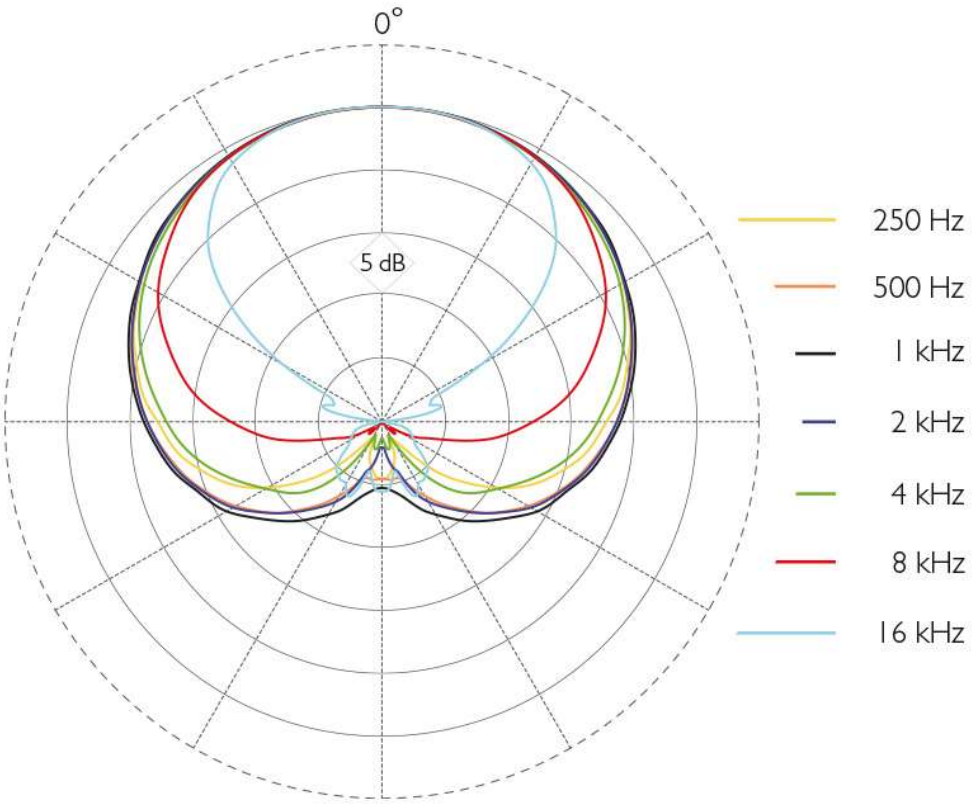
Specifications - 2011ER/ES

Directional pattern	Cardioid
Principle of operation	Pressure gradient, with interference tube
Cartridge type	Pre-polarized condenser, Twin Diaphragm Capsule
Frequency response	20 Hz - 20 kHz
Effective frequency range, ±2 dB, at 30 cm (11.8 in)	50 Hz - 17 kHz with 3 dB soft boost at 12 kHz
Sensitivity, nominal, ±2 dB at 1 kHz	10 mV/Pa; -40 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 20 dB(A) re. 20 µPa (max. 23 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 33 dB (max. 36 dB)
Rated output impedance	100 Ω
Minimum load impedance	2 kΩ

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	24 g (0.8 oz)
Microphone diameter	19 mm (0.75 in)
Microphone length	51 mm (2.0 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%
Sensitivity selection tolerance (at 1 kHz)	±1.5 dB



Typical on and off-axis response of a DPA 2011ER and 2011ES Cardioid Microphone measured at 30 cm (11.8 in)



Typical directional characteristics of a DPA 2011ER and 2011ES Cardioid Microphone