

# DPA MOBILE SURROUND 5100 Specifications

Directional pattern

Directional

Principle of operation

Pressure, with interference tube and separation baffles

Cartridge type

Pre-polarized condenser element

Frequency range

L, C, R, LS, RS: 20 Hz to 20 kHz; LFE: 20 Hz to 120 Hz

Frequency range,  $\pm 2$  dB

L, C, R: 200 Hz to 16 kHz; LS, RS: 100 Hz to 12 kHz; LFE: 20 Hz to 120 Hz

Sensitivity, nominal,  $\pm 3$  dB at 1 kHz

L, C, R: 26 mV/Pa; LS, RS: 28 mV/Pa

Equivalent noise level, A-weighted

L, C, R: Typ. 18 dB(A) (max. 21 dB(A)); LS, RS: Typ. 20 dB(A) (max. 23 dB(A))

Equivalent noise level, ITU-R BS.468-4

L, C, R: Typ. 29 dB (max. 32 dB); LS, RS: Typ. 31 dB (max. 34 dB)

S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL)

L, C, R: Typ. 76 dB(A); LS, RS: Typ. 74 dB(A)

Total harmonic distortion (THD)

< 1% up to 123 dB SPL peak

Dynamic range

L, C, R, LS, RS: 103 dB; LFE: 100 dB

Max. SPL, peak before clipping

132 dB

Output impedance

50  $\Omega$

Cable drive capability

100 m (328 ft)

Output balance principle

Active Signal balanced

Common mode rejection ratio (CMRR)

60 dB, 50 Hz - 20 kHz

Power supply (for full performance)

48 V Phantom power

Current consumption

Typ. 5 mA (max. 5.5 mA)

Connector

Lemo multipin

Color

Black

Weight

500 g (17.6 oz)

Microphone diameter

W: 240 mm (9.4 in), H: 140 mm (5.5 in), D: 195 mm (7.7 in)

Capsule diameter

5.4 mm (0.21 in)

Cable length

5 m (16.4 ft)

Cable color

Black

Cable diameter

9.3 mm (0.37 in)

Maximum output voltage

L, C, R, LS, RS: 1,8 Vrms / 2,5 Vpeak; LFE: 1 Vrms / 1,4 Vpeak

Polarity

Positive

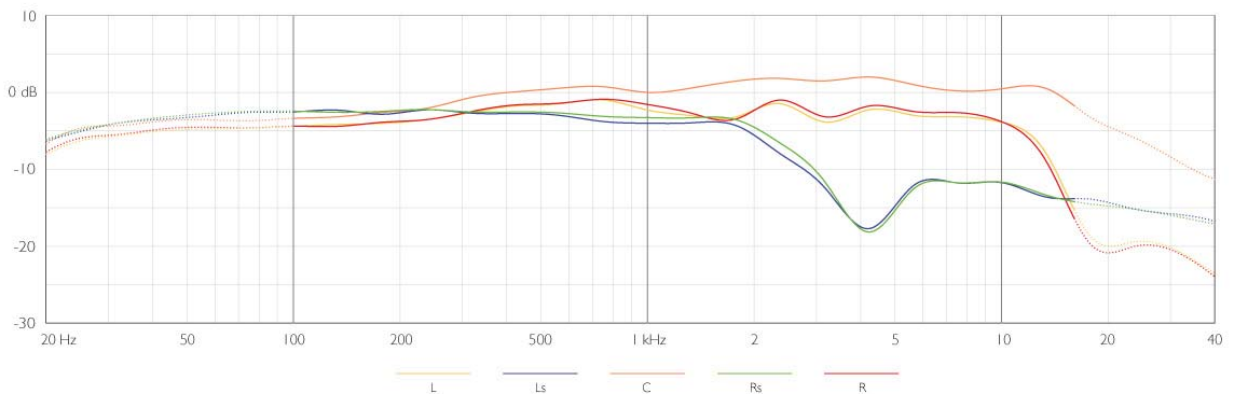
Temperature range

-40°C to 45°C (-40°F to 113°F)

Relative humidity (RH)

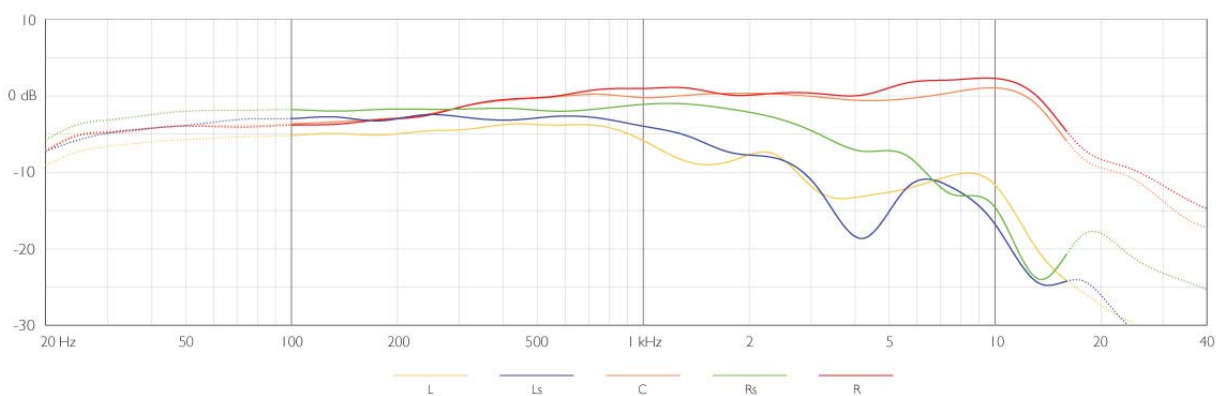
Up to 90%

## 5100 Frequency response - 0 degrees



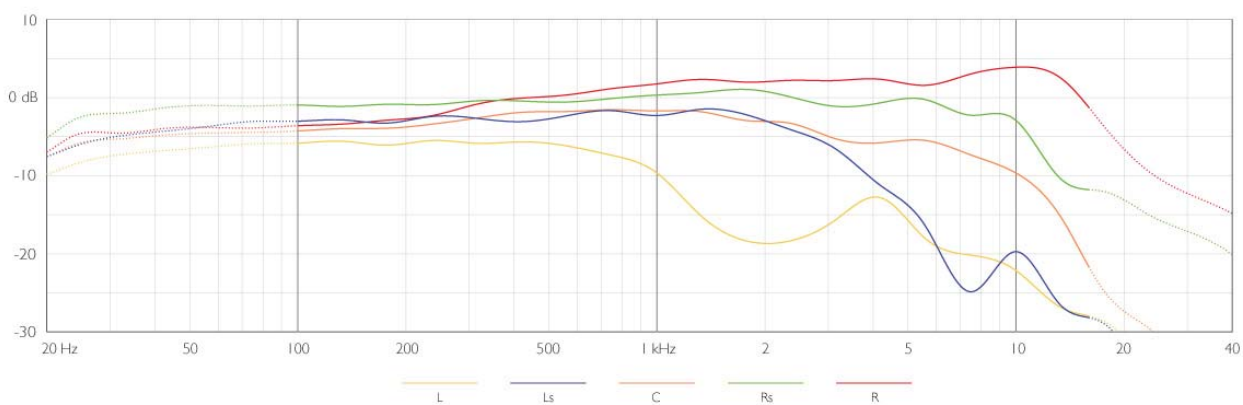
Typical frequency response of a 5100 at 0 degrees

## Frequency response - 30 degrees



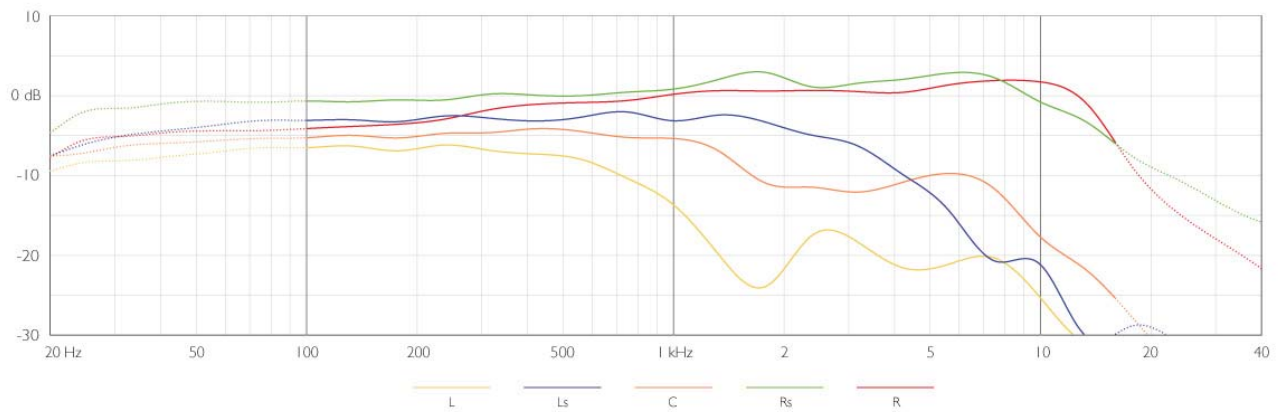
Typical frequency response of a 5100 at 30 degrees

## Frequency response - 60 degrees



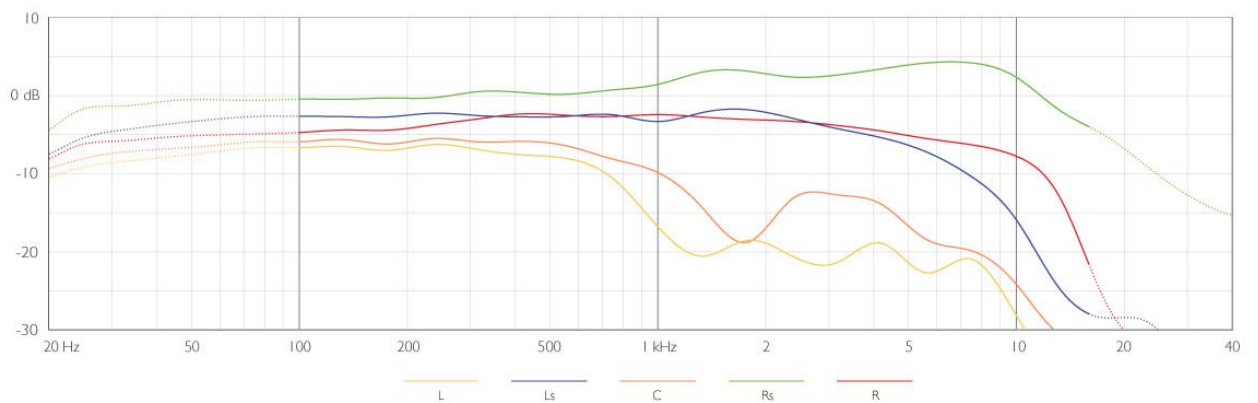
Typical frequency response of a 5100 at 60 degrees

## Frequency response - 90 degrees



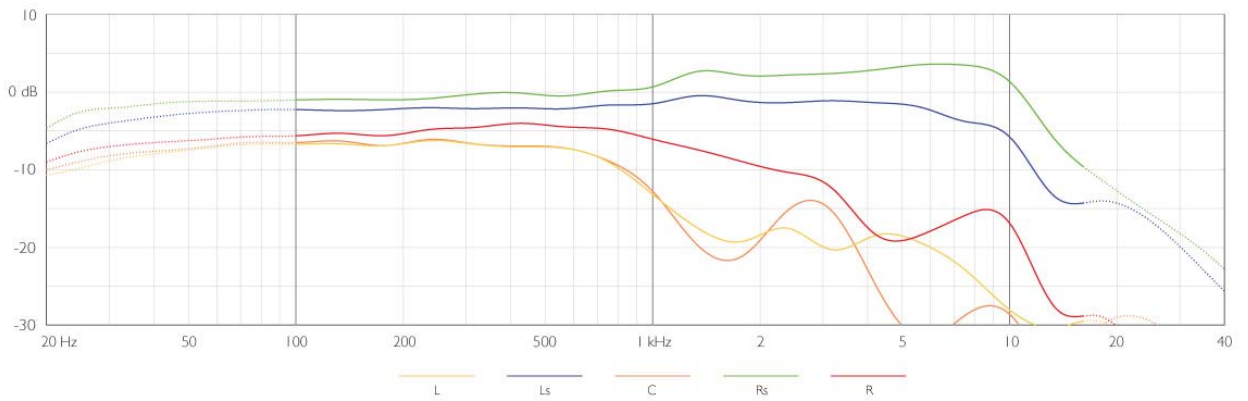
Typical frequency response of a 5100 at 90 degrees

## Frequency response - 120 degrees



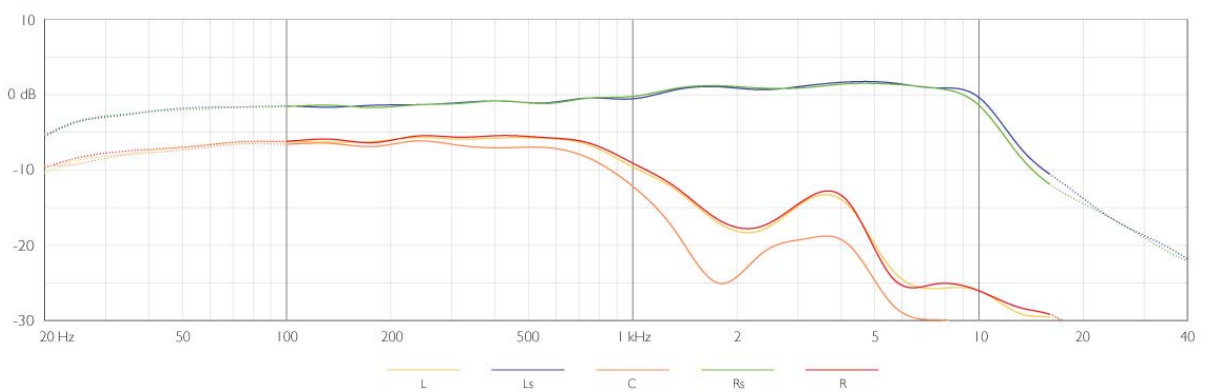
Typical frequency response of a 5100 at 120 degrees

## Frequency response - 150 degrees



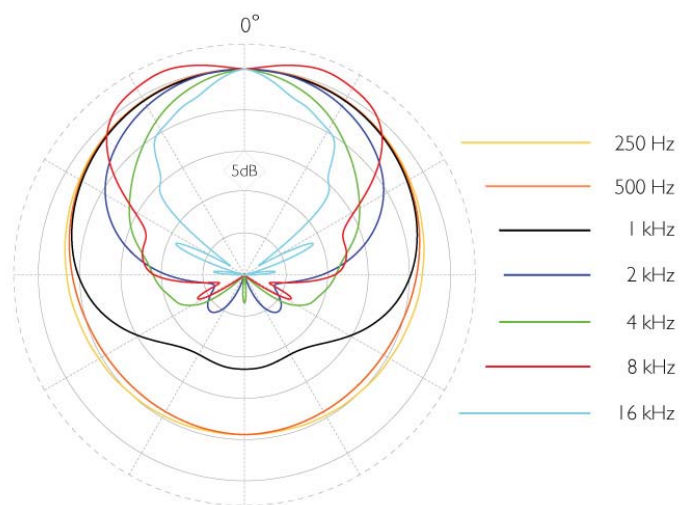
Typical frequency response of a 5100 at 150 degrees

## Frequency response - 180 degrees



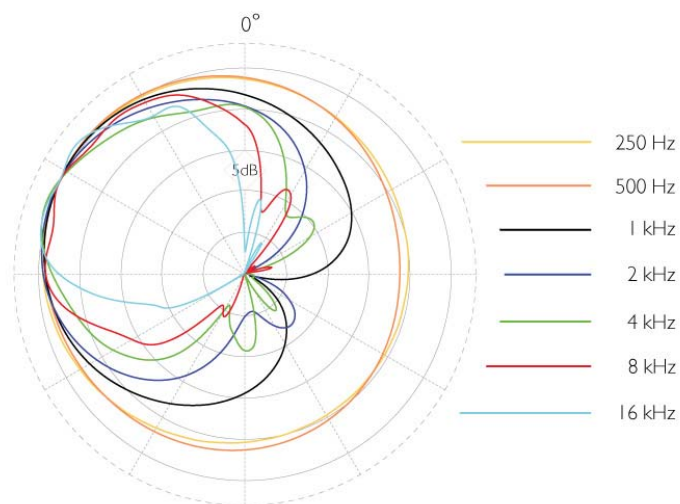
Typical frequency response of a 5100 at 180 degrees

## Polar pattern - center



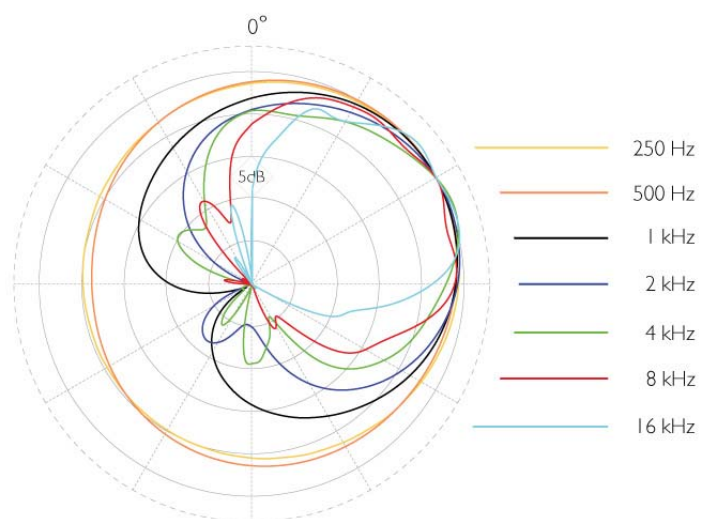
Typical directional characteristics of a 5100 (Normalized): Center

## Polar pattern - left



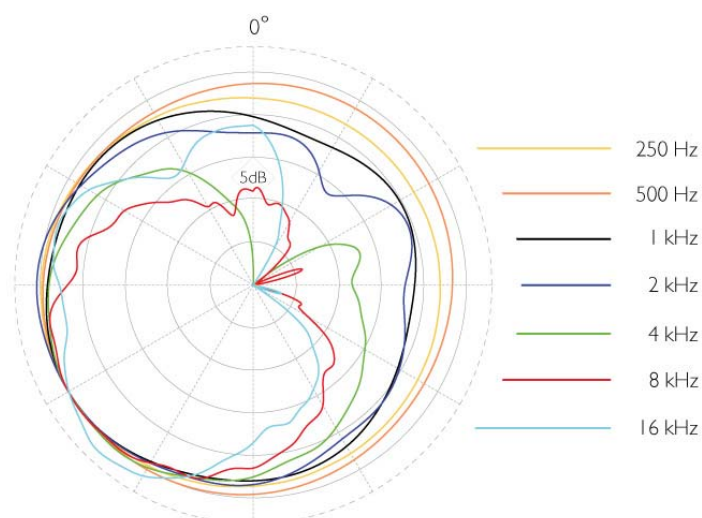
Typical directional characteristics of a 5100 (Normalized): Left

## Polar pattern - Right



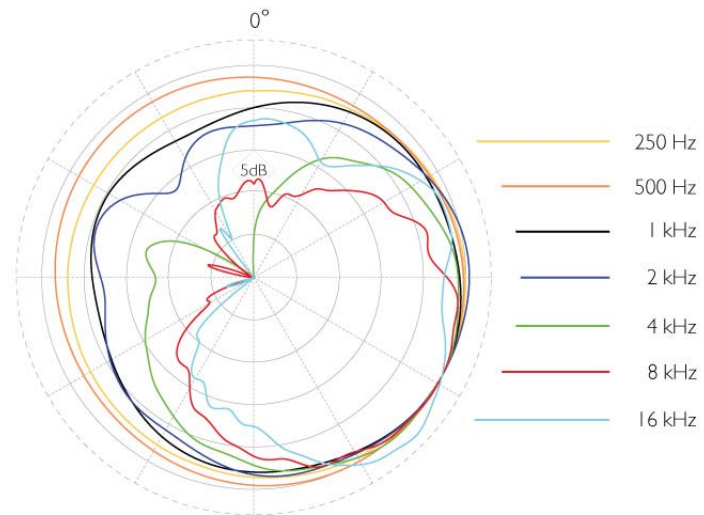
Typical directional characteristics of a 5100 (Normalized): Right

## Polar pattern - left surround



Typical directional characteristics of a 5100 (Normalized): Left Surround

## Polar pattern - right surround



Typical directional characteristics of a 5100 (Normalized): Right Surround