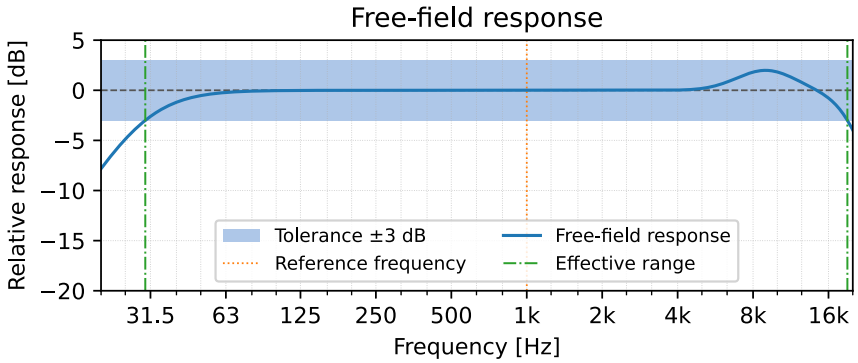
Microphone characteristics

IEC 60268-4 measurement of microphone rated characteristics per IEC 60268-4:2014; frequency and polar graphs to IEC 60263:1982.

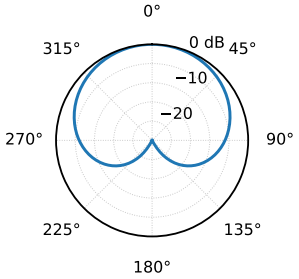
Client:	Example client	Manufacturer:	Example audio
Description:	Cardioid condenser microphone, 25 mm capsule	Test room:	Anechoic chamber (example)
Mounting:	Free field, reference axis towards the source at 1 m	Date of test:	2026-07-20
Temperature [°C]:	21	Relative humidity [%]:	45
Ambient pressure [kPa]:	101.3		

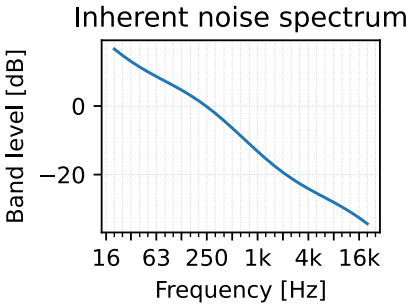
Rated characteristics

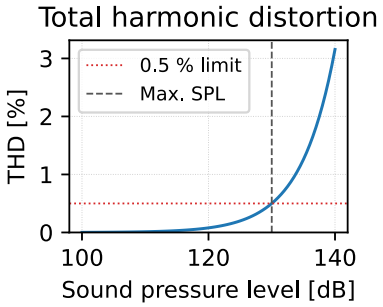
Free-field sensitivity	12.5 mV/Pa
Level re 1 V/Pa [dB]	–38.1
Effective frequency range	30–19032 Hz
Rated impedance	150 Ω
Min. load impedance	1000 Ω
Equivalent noise level	14.0 dB(A)
Signal-to-noise ratio	80.0 dB(A)
Max. SPL (0.5 % THD)	130.0 dB
Directivity index at 1000 Hz	4.8 dB
Powering	Phantom P48 (IEC 61938)
Supply current [mA]	3.1



Directional response at 1000 Hz







Free-field sensitivity **12.5 mV/Pa** (–38.1 dB re 1 V/Pa at 1000 Hz); effective frequency range **30–19032 Hz** (±3 dB)

Result vs requirement: Equivalent noise level 14.0 dB(A), required ≤ 16 dB(A) → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-60268-4
Date: 2026-07-20
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.