



PHL Audio HP982Nd

5 inches coaxial driver

Nominal Diameter	13 cm / 5 "
Rated Impedance	8 Ω
Reference efficiency (1W @ 1m)	92 dB SPL
Power Handling Capacity	100 W AES
SPL max (continuous)	109 dB SPL
Usable frequency range	110 - 16 000 Hz
Speaker net mass	1.04 kg

Architecture highlights :

- Time aligned coaxial HF driver
- Noiseless natural convection Intercooling System
- Neodymium magnet system with symmetric BL(x) and Le(x)
- High excursion fabric surround
- Lightweight basket



Motor architecture

Voice coil diameter	mm	38
Voice coil length	mm	12
Air gap height	mm	6

Typical characteristics

Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	92
Usable freq. range	-	Hz	110 - 4000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPL _{max}	dB SPL	109
Min. impedance modulus	Z _{min}	Ω @Hz	6.4@650
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0.590
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.233
BL product	BL	N/A	8.5
Moving mass	M _{ms}	kg	0.009

Thiele-Small parameters

Resonance frequency	Fs	Hz	130 (± 20)
DC Resistance	Re	Ω	5.7 (± 0.6)
Mechanical quality factor	Q _{ms}	1	3.65
Electrical quality factor	Q _{es}	1	0.55
Total quality factor	Q _{ts}	1	0.48
Suspension compliance	C _{ms}	10 ⁻⁶ .m/N	180
Effective piston area	S _d	m ²	0.0096
Equivalent Cas air load	V _{as}	m ³	0.0023
Max linear excursion	X _{max}	mm	± 4.5
Linear displacement volume	V _d	10 ⁻³ .m ³	0.0432
Reference efficiency	η_0	%	0.9
Unity load volume	V _{as} .Q _{ts} ²	10 ⁻³ .m ³	0.5

Absolute maximum ratings

Short term max. input voltage	V _{max}	V	55
Max.excursion before damage	X _{dam}	mm	± 12
Ambient operating temperature	T _a	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Outdoor+

Coaxially mounted HF Unit

Rated impedance	Z	Ω	4
Half space sensitivity (1W@1m)	-	dB SPL	97.0
Usable freq. range	-	Hz	2k - 16k
Power handling capacity (AES)	-	W	30

Mounting information

Air volume occupied by the driver	10 ⁻³ .m ³	0.18
Speaker net mass	kg	1.04
Baffle cut-out diameter (front mounting)	mm	124.5
Bolt number & Metric diameter	-	4x M5
Bolt circle diameter	mm	147.0
Max overall dimension (on ears)	mm	163.0
Max overall dimension (out of ears)	mm	136.0
Flange height	mm	12.5
Max magnet diameter	mm	-
Max depth (front mounting)	mm	76.0
Recommended reflex box	Lts / Hz	8L / 60Hz
Electrical connection	6.35x0.8 + 4.8x0.5 FASTON	

