



PHL Audio HP900Nd

5 inches low - mid frequency driver

Nominal Diameter	13 cm / 5 "
Rated Impedance	8 Ω
Reference efficiency (1W @ 1m)	90 dB SPL
Power Handling Capacity	100 W AES
SPL max (continuous)	107 dB SPL
Usable frequency range	60 - 3000 Hz
Speaker net mass	0.98 kg

Architecture highlights :

- Noiseless natural convection Intercooling System
- Neodymium magnet system with symmetric BL(x) and Le(x)
- Long excursion suspension with linear behavior for large signal
- Lightweight basket



Motor architecture			
Voice coil diameter	mm	38	
Voice coil length	mm	16	
Air gap height	mm	6	

Typical characteristics			
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	90
Usable freq. range	-	Hz	60 - 3000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPL _{max}	dB SPL	107
Min. impedance modulus	Z _{min}	Ω @Hz	6.2@550
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0.346
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.212
BL product	BL	N/A	8.1
Moving mass	M _{ms}	kg	0.011

Thiele-Small parameters			
Resonance frequency	Fs	Hz	66 (± 10)
DC Resistance	Re	Ω	5.7 (± 0.6)
Mechanical quality factor	Q _{ms}	1	3.87
Electrical quality factor	Q _{es}	1	0.40
Total quality factor	Q _{ts}	1	0.37
Suspension compliance	C _{ms}	10 ⁻⁶ .m/N	520
Effective piston area	S _d	m ²	0.0102
Equivalent Cas air load	V _{as}	m ³	0.0076
Max linear excursion	X _{max}	mm	± 6.5
Linear displacement volume	V _d	10 ⁻³ .m ³	0.0663
Reference efficiency	η_0	%	0.5
Unity load volume	V _{as} .Q _{ts} ²	10 ⁻³ .m ³	1.0

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+

Mounting information		
Air volume occupied by the driver	10 ⁻³ .m ³	0.18
Speaker net mass	kg	0.98
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	73.50
Recommended reflex box	Lts / Hz	8L / 60Hz
Electrical connection	6.35x0.8 + 4.8x0.5 FASTON	

