900Nd

5 inches low-mid driver

Nominal Diameter	**5 " / 13 cm**
Rated Impedance	**8 Ω**
Sensitivity	**90 dB SPL**
Power Handling Capacity	**120 W AES**
SPL max (continuous)	**108 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

Magnet material	-	Nd
Voice coil diameter	mm	38
Voice coil length	mm	16
Air gap height	mm	6

Typical characteristics

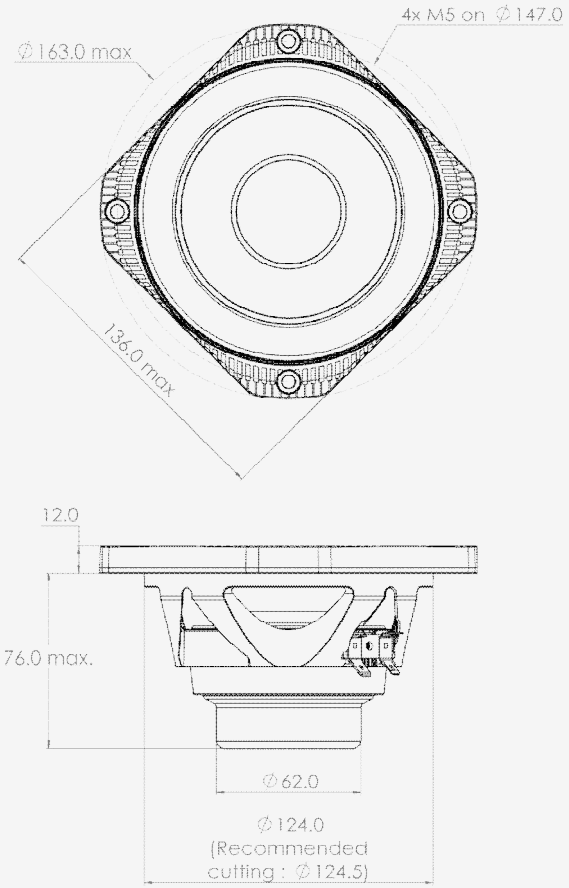
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	90.0
Usable freq. range	-	Hz	60 - 3000
Power handling capacity (AES)	-	W	120
Max Sound Pressure Level	SPL_{max}	dB SPL	108
Min. impedance modulus	Z_{min}	Ω@Hz	6.3@500
Voice-coil inductance @ 1kHz	Le_{1k}	mH	0.619
Voice-coil inductance @ 10kHz	Le_{10k}	mH	0.223
BL product	BL	N/A	8.1
Moving mass	Mms	kg	0.0112

Thiele-Small parameters

Resonance frequency	Fs	Hz	65 (±10)
DC Resistance	Re	Ω	5.7 (±0.6)
Mechanical quality factor	Qms	1	3.81
Electrical quality factor	Qes	1	0.40
Total quality factor	Qts	1	0.36
Suspension compliance	Cms	10^{-6}.m/N	540
Effective piston area	Sd	m^2	0.0102
Equivalent Cas air load	Vas	m^3	0.0078
Max linear excursion	Xmax	mm	± 6.5
Linear displacement volume	Vd	$10^{-3}.m^3$	0.0663
Reference efficiency	η_0	%	0.5
Unity load volume	$Vas.Qts^2$	$10^{-3}.m^3$	1.0

Absolute maximum ratings

Short term max. input voltage	Vmax	V	60
Max.excursion before damage	Xdam	mm	±12
Ambient operating temperature	Ta	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Tropical



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	12.0
Max magnet diameter	mm	-
Max depth (front mounting)	mm	76.0
Recommended reflex box	Lts / Hz	-
Electrical connection	6.35x0.8 + 4.8x0.5 FASTON	

900Nd

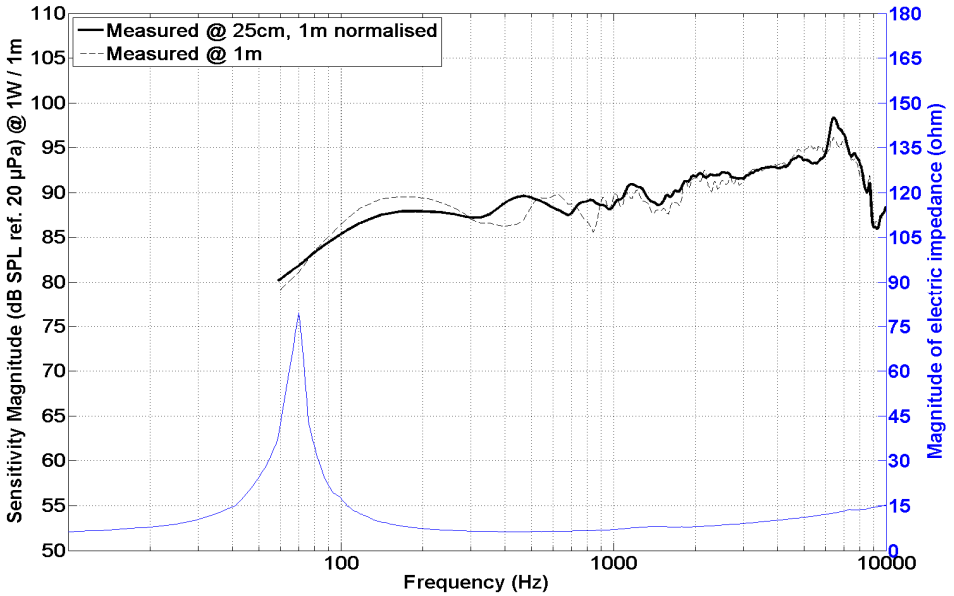
5 inches low-mid driver

SPL curves measured on CEI standard baffle :

. at 25 cm, normalised 1 m

. at 1 m for reference

. Graph amplitude = 60 dB (PHL Audio standard)

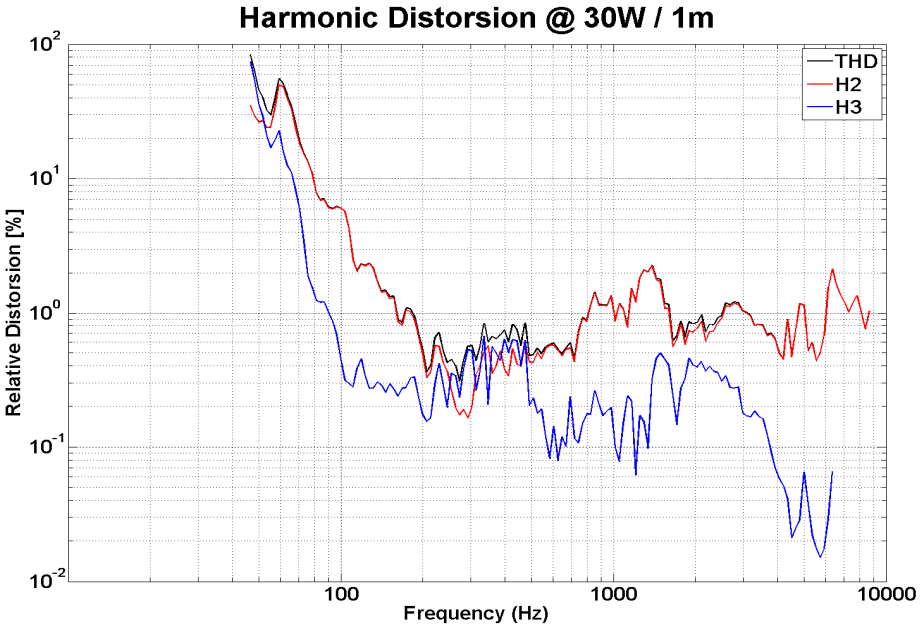


HD curve measured on CEI standard baffle :

. at 1 meter

. at power = P_AES / 4

. Graph amplitude 0.01 % to 100 % (PHL Audio standard for P_AES/4)



Non linear curves measured thanks to Klippel software and hardware, in free air