



3005NdU

Nominal Diameter	10 " / 25 cm
Rated Impedance	8
Sensitivity	91.5 dB SPL
Power Handling Capacity	250 W AES
SPL max (continuous)	112 dB SPL
Usable frequency range	40 - 3000 Hz
Speaker net mass	3 kg

10 inches bass driver



Architecture highlights :

- Noiseless natural convection Intercooling System
- High excursion 22.0 mm winding voice coil
- Neodymium magnet system with symmetric BL(x) and Le(x)
- High compliance double half-roll Fabric Surround for low Fs
- Dual side coated diaphragm

Motor architecture

Magnet material	-	Nd
Voice coil diameter	mm	51
Voice coil length	mm	22
Air gap height	mm	8

Typical characteristics

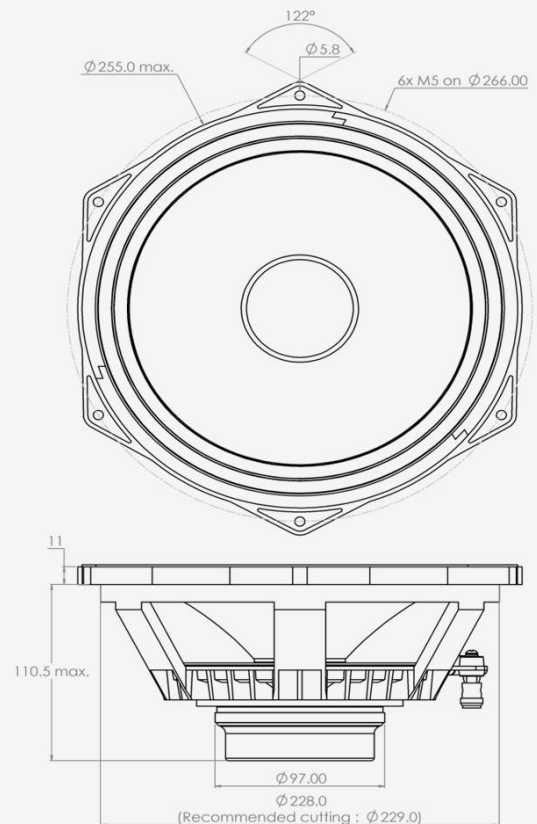
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	91.5
Usable freq. range	-	Hz	40 - 3000
Power handling capacity (AES)	-	W	250
Max Sound Pressure Level	SPL _{max}	dB SPL	112
Min. impedance modulus	Z _{min}	Ω@Hz	5.7@280
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.050
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.584
BL product	BL	N/A	12.6
Moving mass	M _{ms}	kg	0.0510

Thiele-Small parameters

Resonance frequency	Fs	Hz	53 (±8)
DC Resistance	Re	Ω	4.7 (±0.5)
Mechanical quality factor	Q _{ms}	1	5.66
Electrical quality factor	Q _{es}	1	0.50
Total quality factor	Q _{ts}	1	0.46
Suspension compliance	C _{ms}	10 ⁻⁶ .m/N	180
Effective piston area	S _d	m ²	0.0356
Equivalent Cas air load	V _{as}	m ³	0.0318
Max linear excursion	X _{max}	mm	± 9.0
Linear displacement volume	V _d	10 ⁻³ .m ³	0.3207
Reference efficiency	η ₀	%	0.9
Unity load volume	V _{as} .Q _{ts} ²	10 ⁻³ .m ³	6.8

Absolute maximum ratings

Short term max. input voltage	V _{max}	V	90
Max. excursion before damage	X _{dam}	mm	± 12.0
Ambient operating temperature	T _a	°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	1.40
Speaker net mass	kg	3.00
Baffle cut-out diameter (front mounting)	mm	229.0
Bolt number & Metric diameter	-	6x M5
Bolt circle diameter	mm	266.0
Max overall dimension (on ears)	mm	283.5
Max overall dimension (out of ears)	mm	254.5
Flange height	mm	11.0
Max magnet diameter	mm	97.0
Max depth (front mounting)	mm	110.5
Recommended reflex box	Lts / Hz	-
Electrical connection		Ø4 mm Push buttons



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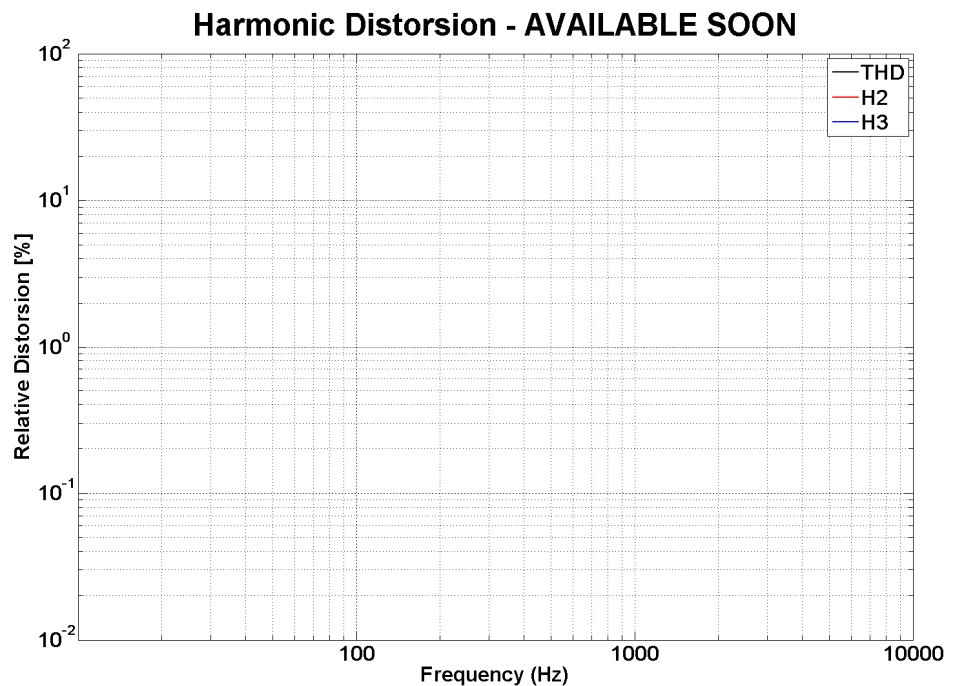
SPL curves measured on CEI standard baffle :

- . 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

