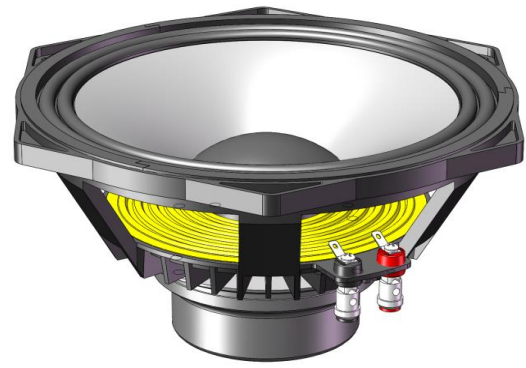




3411NdU

Nominal Diameter	10 " / 25 cm
Rated Impedance	8
Sensitivity	92.5 dB SPL
Power Handling Capacity	400 W AES
SPL max (continuous)	116 dB SPL
Usable frequency range	35 - 2000 Hz
Speaker net mass	4.2 kg

10 inches bass driver



Architecture highlights :

- Noiseless natural convection Intercooling System
- Ferrite magnet system with symmetric BL(x) and Le(x)
- Dual side coated diaphragm
- High excursion 24.0 mm winding voice coil
- Linear BL(x) on +/-6mm

Motor architecture

Magnet material	-	Nd
Voice coil diameter	mm	64
Voice coil length	mm	24
Air gap height	mm	10

Typical characteristics

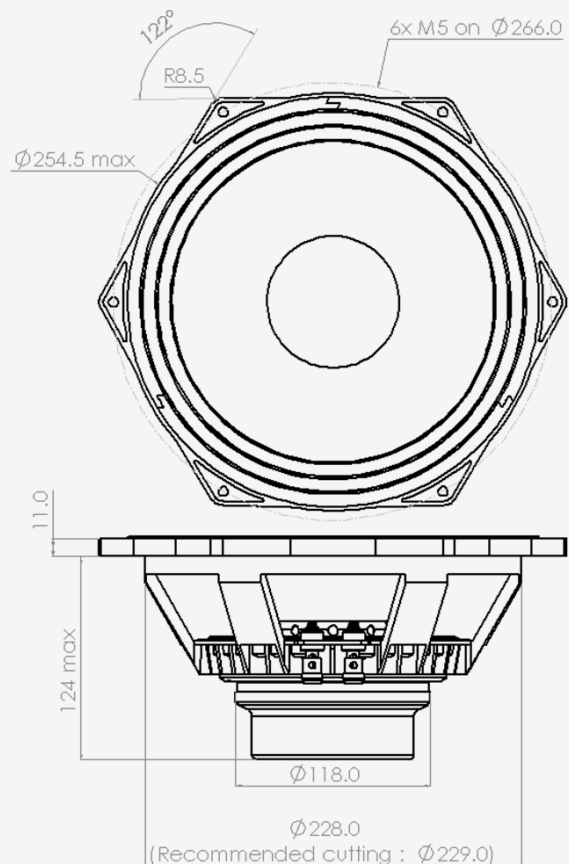
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	92.5
Usable freq. range	-	Hz	35 - 2000
Power handling capacity (AES)	-	W	400
Max Sound Pressure Level	SPL _{max}	dB SPL	116
Min. impedance modulus	Z _{min}	Ω@Hz	7.0@230
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.507
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.638
BL product	BL	N/A	18.2
Moving mass	M _{ms}	kg	0.0620

Thiele-Small parameters

Resonance frequency	F _s	Hz	47 (±7)
DC Resistance	Re	Ω	5.6 (±0.6)
Mechanical quality factor	Q _{ms}	1	5.91
Electrical quality factor	Q _{es}	1	0.31
Total quality factor	Q _{ts}	1	0.29
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	0.0333
Max linear excursion	X _{max}	mm	± 8.0
Linear displacement volume	V _d	10 ⁻³ .m ³	0.2851
Reference efficiency	η ₀	%	1.1
Unity load volume	V _{as} .Q _{ts} ²	10 ⁻³ .m ³	2.9

Absolute maximum ratings

Short term max. input voltage	V _{max}	V	115
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	1.10
Speaker net mass	kg	4.20
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	118.0
Max depth (front mounting)	mm	124.0
Recommended reflex box	Lts / Hz	-
Electrical connection		Ø4 mm Push buttons

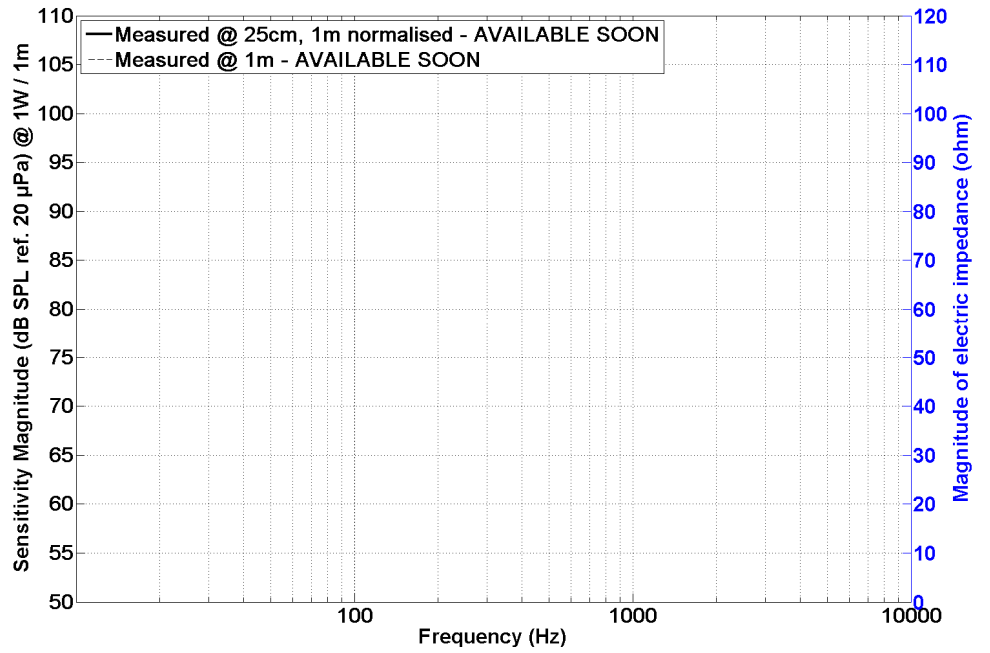


3411NdU

10 inches bass driver

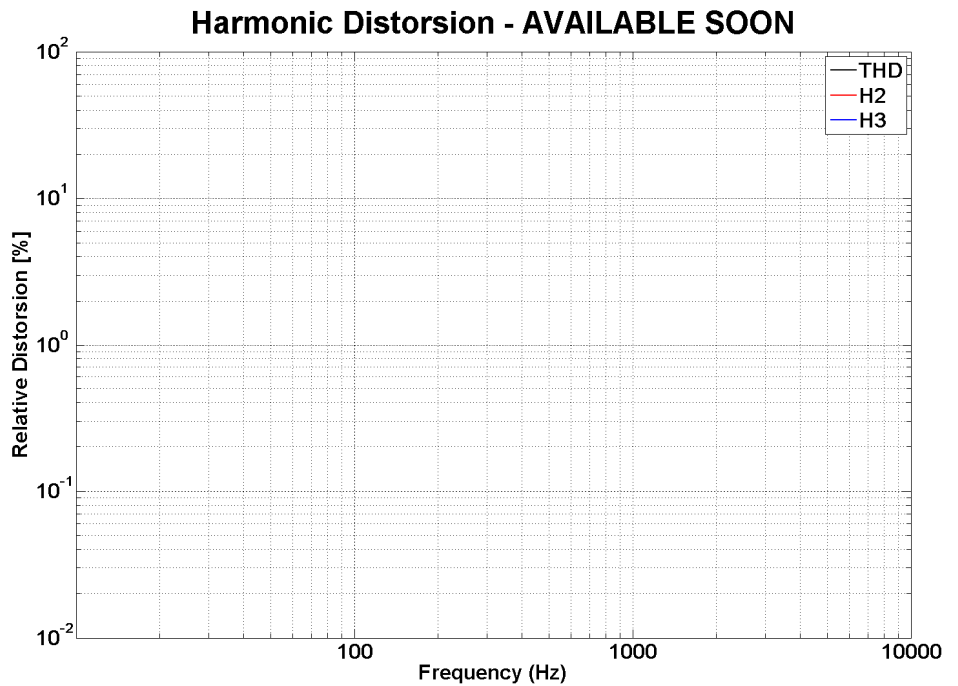
SPL curves measured on CEI standard baffle :

- . 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

