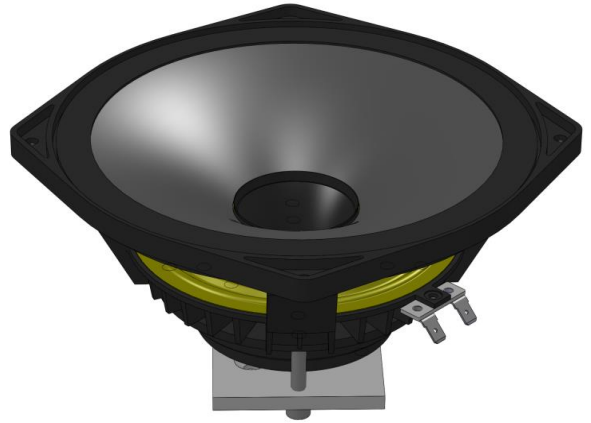




2534NdM-TLHP

Nominal Diameter	8" / 20 cm
Rated Impedance	16
Sensitivity	95.5 dB SPL
Power Handling Capacity	200 W AES
SPL max (continuous)	116 dB SPL
Usable frequency range	200 - 5000 Hz
Speaker net mass	2.2 kg

8 inches midrange driver / 1" coaxial



Architecture highlights :

- Midrange unit with critical damping diaphragm
- Ultra light CCAR voice coil
- Natural convection Intercooler System
- High efficiency ultra low THD neodymium magnet system
- Low profile with flat motor
- One side coated diaphragm

Motor architecture

Magnet material	-	Nd
Voice coil diameter	mm	51
Voice coil length	mm	11
Air gap height	mm	8

Typical characteristics

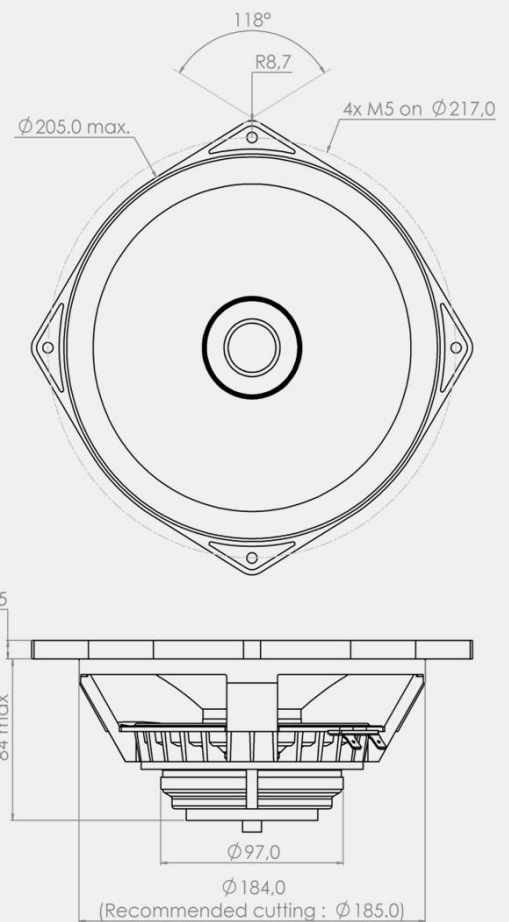
Rated impedance	Z	Ω	16
Half space sensitivity (1W@1m)	-	dB SPL	95.5
Usable freq. range	-	Hz	200 - 5000
Power handling capacity (AES)	-	W	200
Max Sound Pressure Level	SPL _{max}	dB SPL	116
Min. impedance modulus	Z _{min}	Ω @Hz	14.6@600
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.763
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.734
BL product	BL	N/A	19.0
Moving mass	Mms	kg	0.0185

Thiele-Small parameters

Resonance frequency	Fs	Hz	127 (± 25)
DC Resistance	Re	Ω	12.5 (± 1.3)
Mechanical quality factor	Qms	1	5.46
Electrical quality factor	Qes	1	0.51
Total quality factor	Qts	1	0.47
Suspension compliance	Cms	10^{-6} .m/N	90
Effective piston area	Sd	m ²	0.0220
Equivalent Cas air load	Vas	m ³	0.0058
Max linear excursion	Xmax	mm	± 2.0
Linear displacement volume	Vd	10^{-3} .m ³	0.0441
Reference efficiency	η_0	%	2.3
Unity load volume	Vas.Qts ²	10^{-3} .m ³	1.3

Absolute maximum ratings

Short term max. input voltage	Vmax	V	115
Max.excursion before damage	Xdam	mm	± 4.0
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ C	-20 to +70
Environmental withstanding			Humidity proof



Mounting information

Air volume occupied by the driver	10^{-3} .m ³	0.65
Speaker net mass	kg	2.20
Baffle cut-out diameter (front mounting)	mm	185.0
Bolt number & Metric diameter	-	4x M5
Bolt circle diameter	mm	217.0
Max overall dimension (on ears)	mm	234.0
Max overall dimension (out of ears)	mm	205.0
Flange height	mm	9.5
Max magnet diameter	mm	97.0
Max depth (front mounting)	mm	84.0
Recommended reflex box	Lts / Hz	-
Electrical connection		6.35x0.8 FASTON



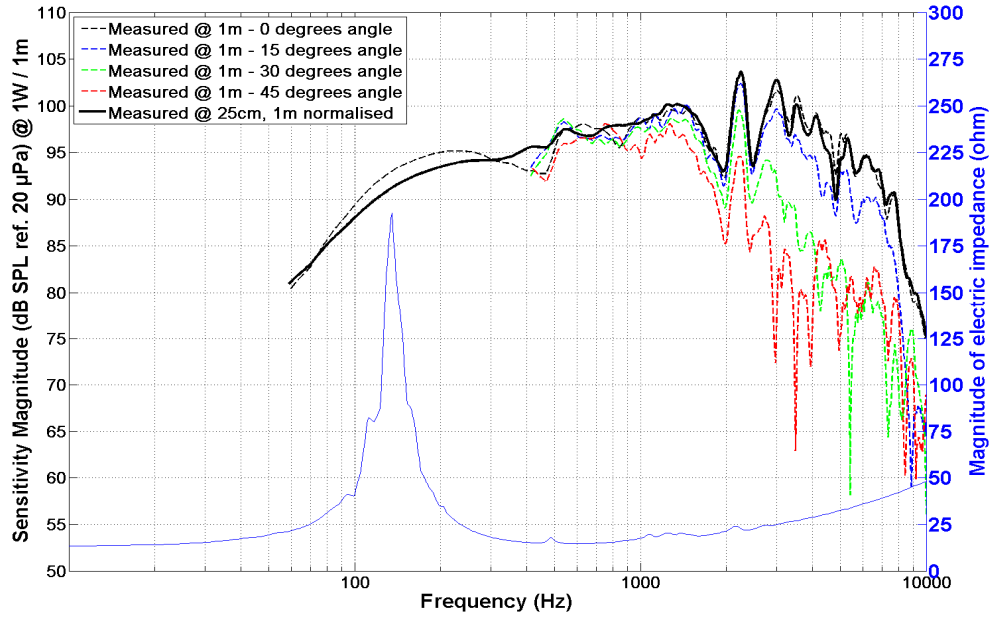
2534NdM-TLHP

8 inches midrange driver / 1" coaxial

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)

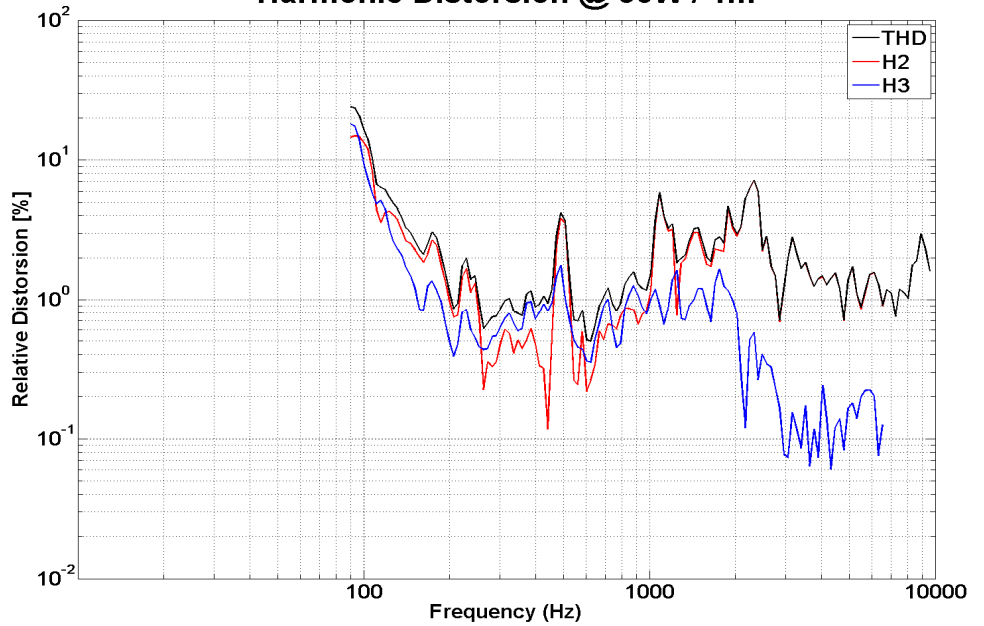
Speaker alone



HD curve measured on CEI standard baffle :

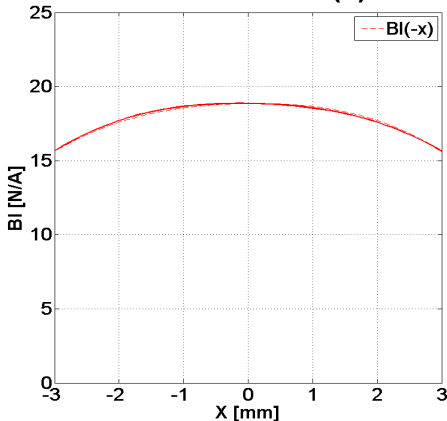
- . at 1 meter
- . at power = $P_{AES} / 4$
- . Graph amplitude 0.01 % to 100 % (PHL Audio standard for $P_{AES}/4$)

Harmonic Distortion @ 50W / 1m

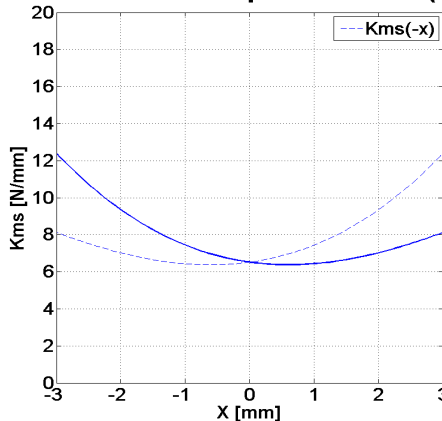


Non linear curves measured thanks to Klippel software and hardware, in free air

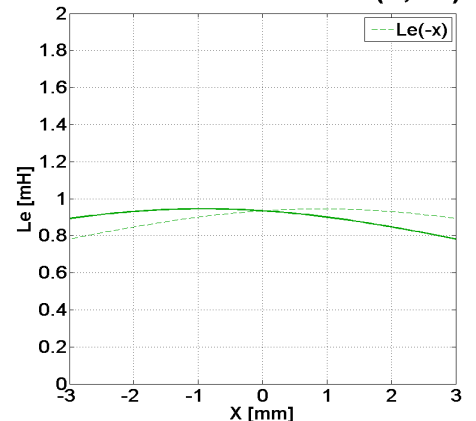
Force factor BI(x)



Stiffness of suspension Kms(X)



Electrical inductance L(X,I=0)





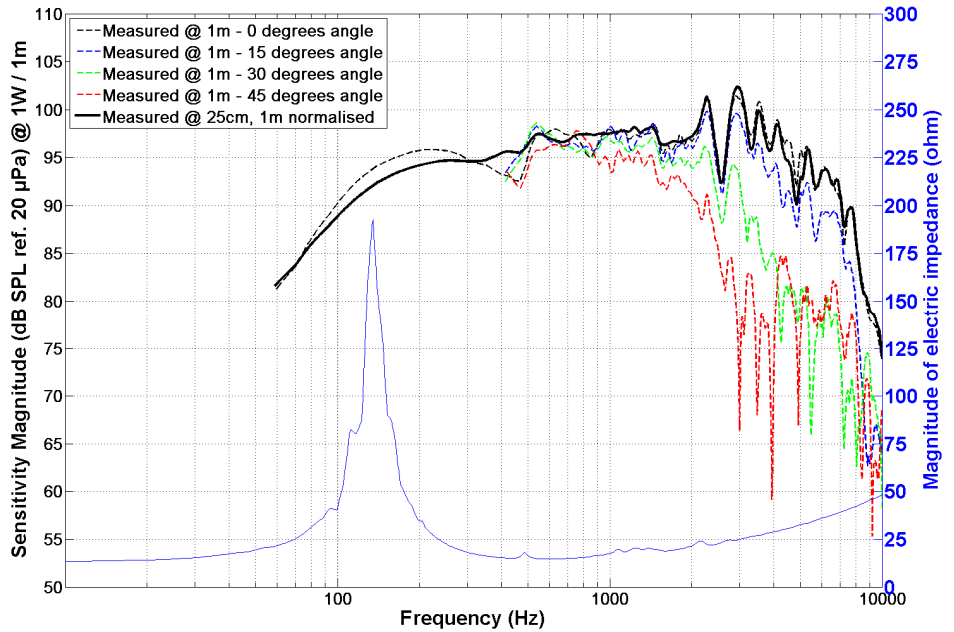
2534NdM-TLHP

8 inches midrange driver / 1" coaxial

With short circuited compression driver attached to the speaker, CEI standard baffle

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)



With short circuited compression driver attached to the speaker, in 7.7L damped* sealed enclosure.

SPL curves measured with driver mounted in enclosure :

- . at 25 cm, normalised 1 m
- . at 1 m for reference
- . Graph amplitude = 60 dB (PHL Audio standard)

* interior walls are cushioned with 15 mm thick wool panels (recycled cotton/polyester textile fibers) and completed with "flying" strips of synthetic polyester wool to fill almost all the remaining volume.

