



2490

Nominal Diameter	8" / 20 cm
Rated Impedance	8
Sensitivity	92.5 dB SPL
Power Handling Capacity	200 W AES
SPL max (continuous)	112 dB SPL
Usable frequency range	70 - 16000 Hz
Speaker net mass	3.02 kg

8 inches low-mid coaxial driver



Architecture highlights :

- Time aligned coaxial HF driver
- Natural convection Intercooler System
- High compliance double half-roll Fabric Surround

Motor architecture

Magnet material	-	Fe
Voice coil diameter	mm	51
Voice coil length	mm	13
Air gap height	mm	8

Typical characteristics

Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	92.5
Usable freq. range	-	Hz	70 - 3000
Power handling capacity (AES)	-	W	200
Max Sound Pressure Level	SPL _{max}	dB SPL	112
Min. impedance modulus	Z _{min}	Ω @Hz	6.4@380
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0.896
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.405
BL product	BL	N/A	12.9
Moving mass	Mms	kg	0.0250

Thiele-Small parameters

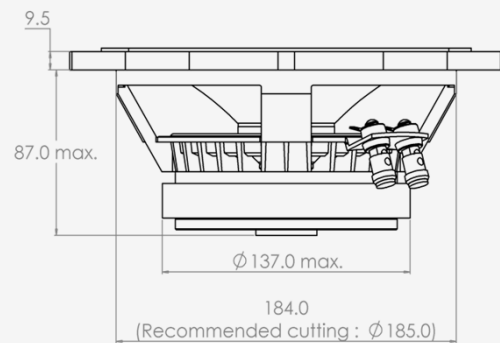
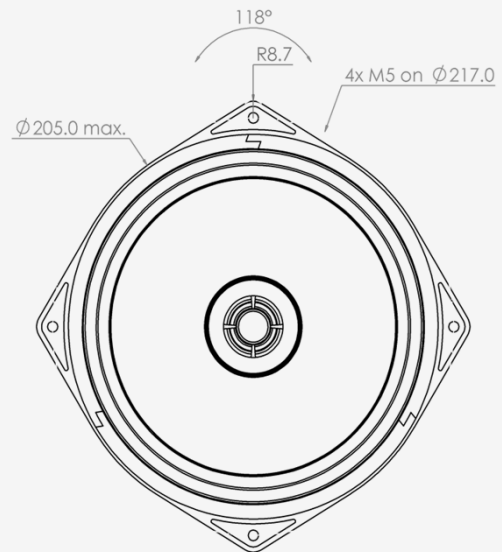
Resonance frequency	Fs	Hz	72 (± 12)
DC Resistance	Re	Ω	5.4 (± 0.5)
Mechanical quality factor	Qms	1	3.77
Electrical quality factor	Qes	1	0.37
Total quality factor	Qts	1	0.33
Suspension compliance	Cms	10^{-6} .m/N	200
Effective piston area	Sd	m ²	0.0198
Equivalent Cas air load	Vas	m ³	0.0109
Max linear excursion	Xmax	mm	± 4.5
Linear displacement volume	Vd	10^{-3} .m ³	0.0891
Reference efficiency	η_0	%	1.1
Unity load volume	Vas.Qts ²	10^{-3} .m ³	1.2

Absolute maximum ratings

Short term max. input voltage	Vmax	V	80
Max.excursion before damage	Xdam	mm	± 10.0
Ambient operating temperature	Ta	$^{\circ}\text{C}$	-10 to +50
Storage temperature		$^{\circ}\text{C}$	-20 to +70
Environmental withstanding			Humidity proof

Coaxially mounted HF Unit

Rated impedance	Z	W	4
Half space sensitivity (1W@1m)	-	dB SPL	97.0
Usable freq. range	-	Hz	2000 - 16000
Power handling capacity (AES)	-	W	30



Mounting information

Air volume occupied by the driver	10^{-3} .m ³	0.72
Speaker net mass	kg	3.0
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	137.0
Max depth (front mounting)	mm	87.0
Recommended reflex box	Lts / Hz	-
Electrical connection		$\varnothing 4$ mm Push buttons

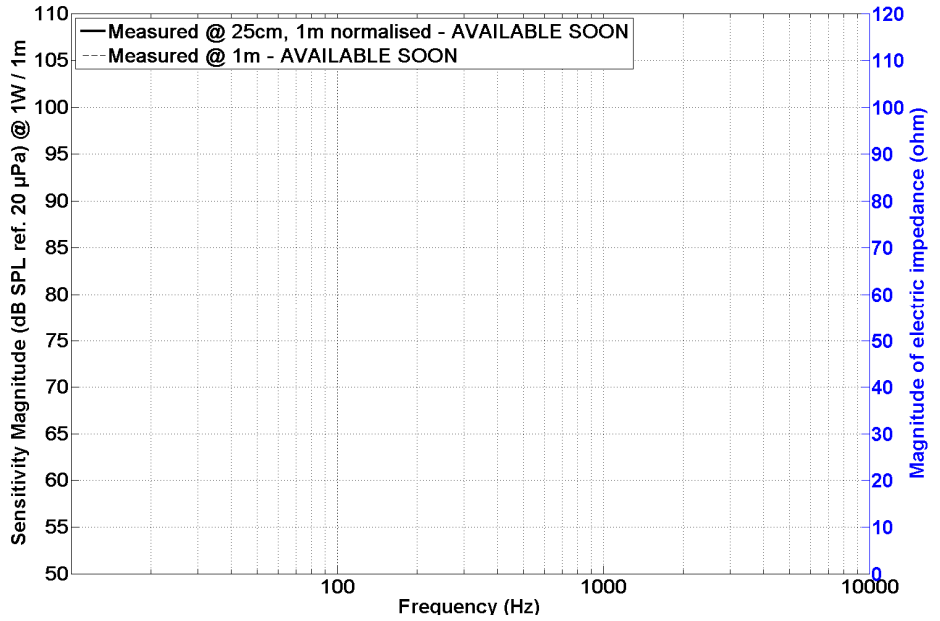


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8 inches low-mid coaxial driver

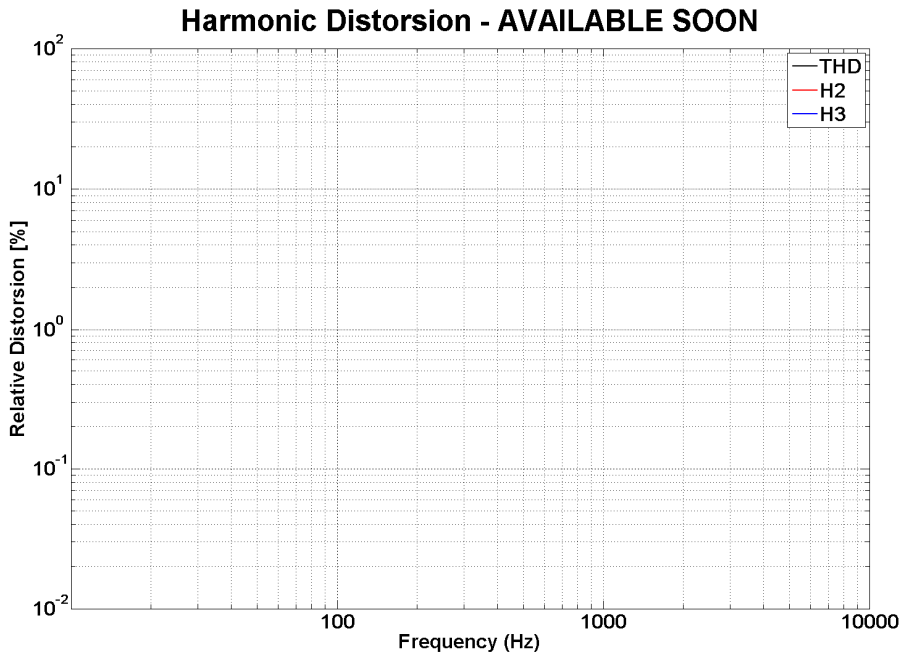
SPL curves measured on CEI standard baffle :

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



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 $P_{AES}/4$)
- . Main driver (low-mid) only



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

