



970

Nominal Diameter	5" / 13 cm
Rated Impedance	8
Sensitivity	90 dB SPL
Power Handling Capacity	120 W AES
SPL max (continuous)	107 dB SPL
Usable frequency range	60 - 16 000 Hz
Speaker net mass	2.08 kg

5 inches low-mid coaxial driver



Architecture highlights :

- Time aligned coaxial HF driver
- Noiseless natural convection Intercooling System
- Ferrite magnet system with symmetric $BL(x)$ and $Le(x)$
- Long excursion suspension with linear behavior for large signal
- Lightweight basket

Motor architecture

Magnet material	-	Fe
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	107
Min. impedance modulus	Z _{min}	Ω @Hz	6.2@550
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0.346
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.212
BL product	BL	N/A	8.0
Moving mass	Mms	kg	0.0107

Thiele-Small parameters

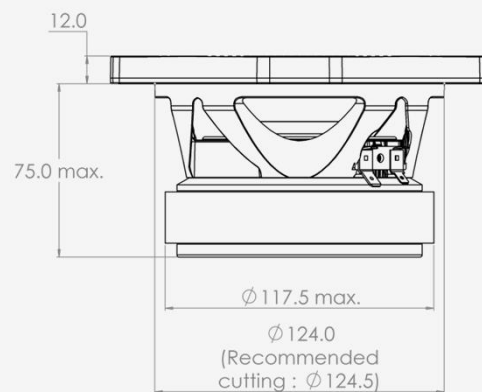
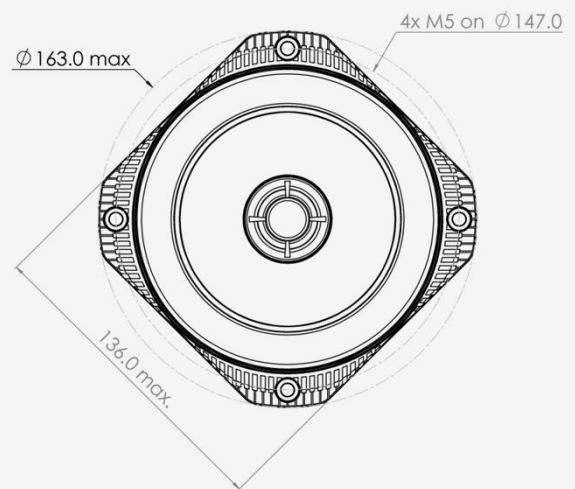
Resonance frequency	Fs	Hz	67 (± 10)
DC Resistance	Re	Ω	5.7 (± 0.6)
Mechanical quality factor	Qms	1	3.75
Electrical quality factor	Qes	1	0.40
Total quality factor	Qts	1	0.36
Suspension compliance	Cms	$10^{-6} \cdot \text{m/N}$	530
Effective piston area	Sd	m^2	0.0092
Equivalent Cas air load	Vas	m^3	0.0062
Max linear excursion	Xmax	mm	± 6.5
Linear displacement volume	Vd	$10^{-3} \cdot \text{m}^3$	0.0595
Reference efficiency	η_0	%	0.4
Unity load volume	Vas.Qts ²	$10^{-3} \cdot \text{m}^3$	0.8

Absolute maximum ratings

Short term max. input voltage	Vmax	V	60
Max. excursion before damage	Xdam	mm	± 12.0
Ambient operating temperature	Ta	$^{\circ}\text{C}$	-10 to +50
Storage temperature		$^{\circ}\text{C}$	-20 to +70
Environmental withstanding			Tropical

Coaxially mounted HF Unit

Rated impedance	Z	W	4
Half space sensitivity (1W@1m) -		dB SPL	97.0
Usable freq. range	-	Hz	2 000 - 16 000
Power handling capacity (AES) -		W	30



Mounting information

Air volume occupied by the driver	$10^{-3} \cdot \text{m}^3$	0.18
Speaker net mass	kg	2.1
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	8L / 60Hz
Electrical connection		6.35x0.8 + 4.8x0.5 FASTON

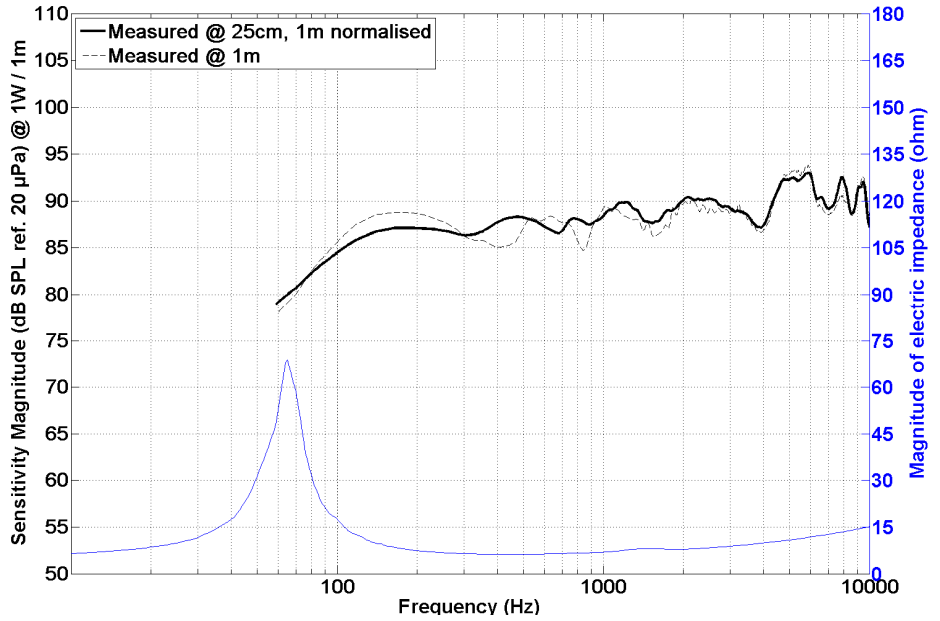


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5 inches low-mid coaxial driver

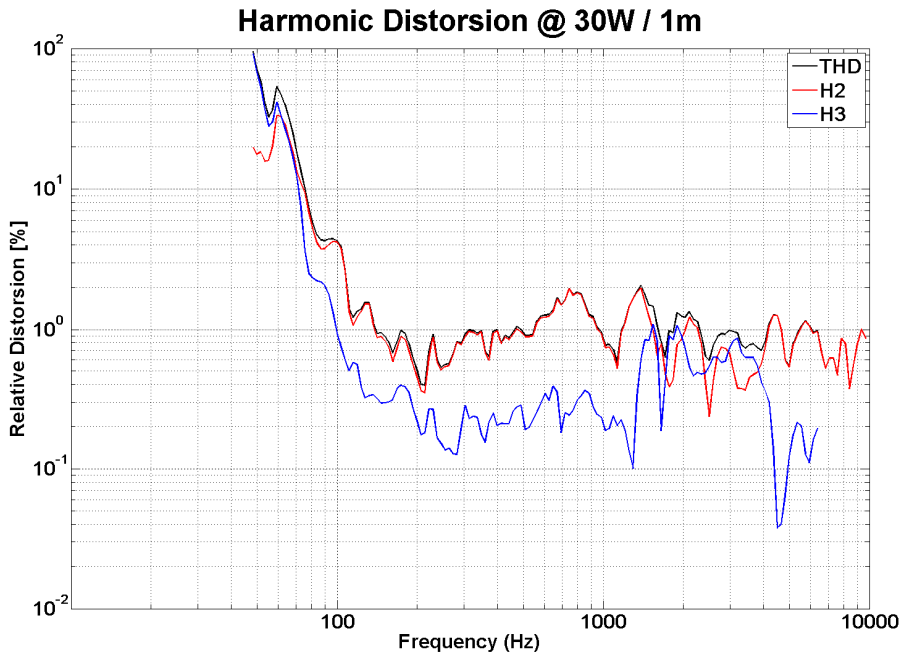
SPL curves measured on CEI standard baffle :

- . 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

