



# 982

Nominal Diameter	5" / 13 cm
Rated Impedance	8
Sensitivity	92 dB SPL
Power Handling Capacity	100 W AES
SPL max (continuous)	108 dB SPL
Usable frequency range	110 - 16000 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)
- High excursion fabric surround
- Lightweight basket

### Motor architecture

Magnet material	-	Fe
Voice coil diameter	mm	38
Voice coil length	mm	12
Air gap height	mm	6

### Typical characteristics

Rated impedance	Z	$\Omega$	8
Half space sensitivity (1W@1m)	-	dB SPL	92.0
Usable freq. range	-	Hz	110 - 4000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	108
Min. impedance modulus	Z <sub>min</sub>	$\Omega$ @Hz	6.3@650
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	0.619
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0.241
BL product	BL	N/A	8.7
Moving mass	Mms	kg	0.0085

### Thiele-Small parameters

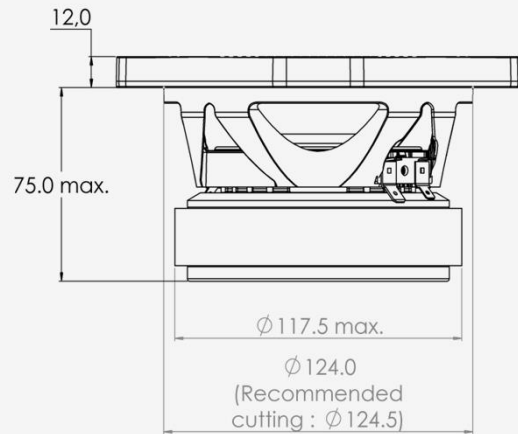
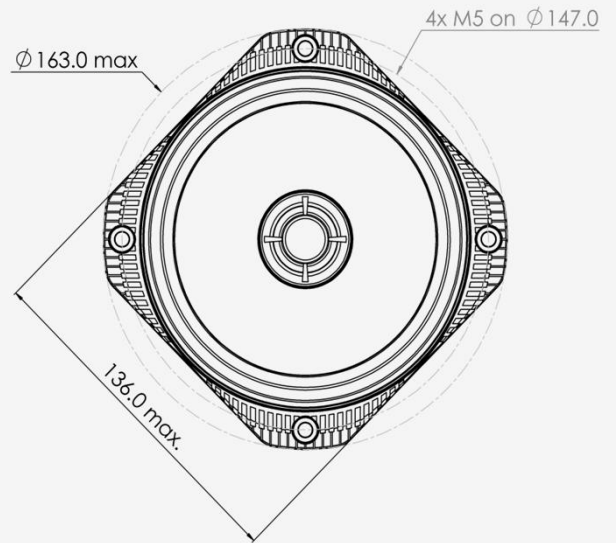
Resonance frequency	Fs	Hz	130 ( $\pm 20$ )
DC Resistance	Re	$\Omega$	5.7 ( $\pm 0.6$ )
Mechanical quality factor	Qms	1	3.65
Electrical quality factor	Qes	1	0.52
Total quality factor	Qts	1	0.46
Suspension compliance	Cms	10 <sup>-6</sup> .m/N	180
Effective piston area	Sd	m <sup>2</sup>	0.0096
Equivalent Cas air load	Vas	m <sup>3</sup>	0.0023
Max linear excursion	Xmax	mm	$\pm 4.5$
Linear displacement volume	Vd	10 <sup>-3</sup> .m <sup>3</sup>	0.0432
Reference efficiency	$\eta_0$	%	0.9
Unity load volume	Vas.Qts <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	0.5

### Absolute maximum ratings

Short term max. input voltage	Vmax	V	55
Max.excursion before damage	Xdam	mm	$\pm 9.0$
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ 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	2000 - 16000
Power handling capacity (AES)	-	W	30



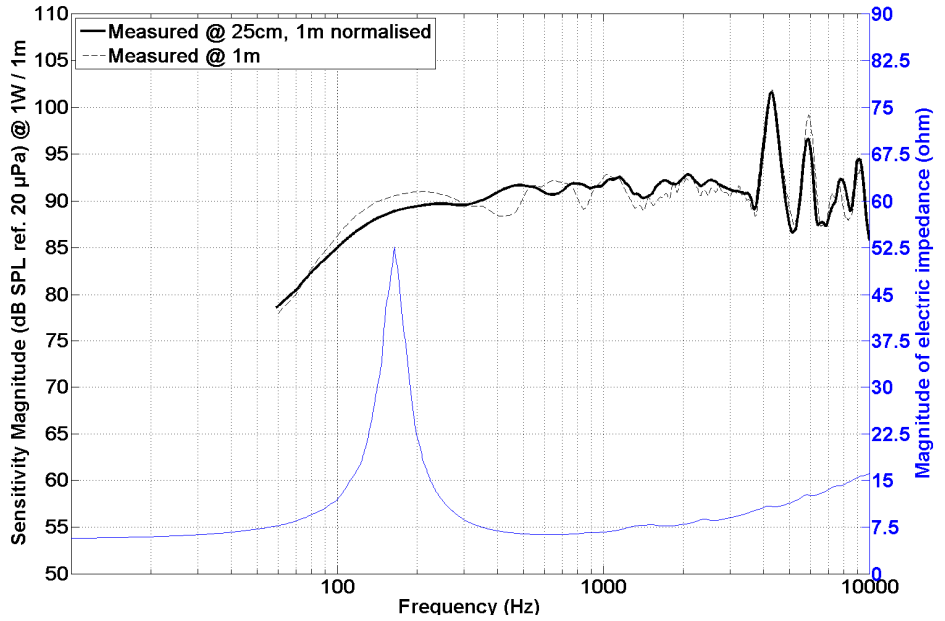
### Mounting information

Air volume occupied by the driver	10 <sup>-3</sup> .m <sup>3</sup>	0.38
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	117.5
Max depth (front mounting)	mm	75.0
Recommended reflex box	Lts / Hz	5L / 110Hz
Electrical connection		6.35x0.8 + 4.8x0.5 FASTON



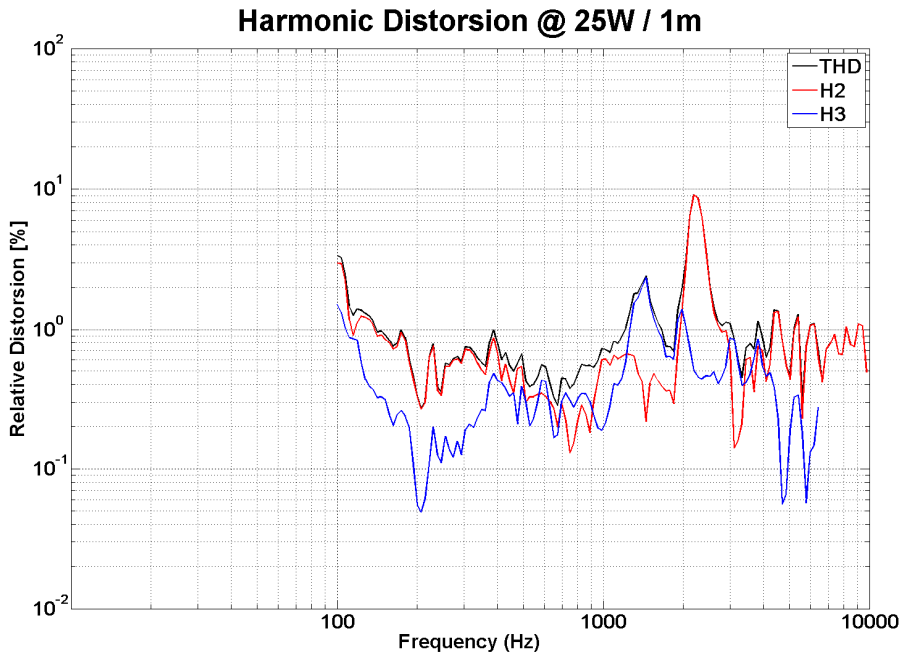
SPL curves measured on CEI standard baffle :

- . 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

