

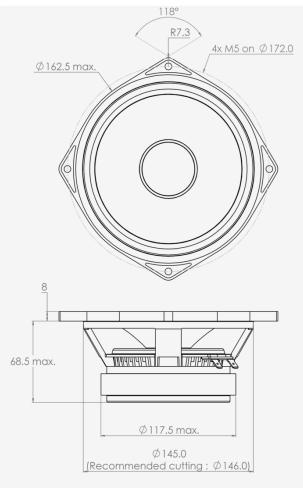
1220

Nominal Diameter	6.
Rated Impedance	
Sensitivity	9
Power Handling Capacity	
SPL max (continuous)	1
Usable frequency range	5
Speaker net mass	

6.5 " / 17 cm 8 91.5 dB SPL 100 W AES 108 dB SPL 50 - 4000 Hz 2.15 kg

6.5 inches bass driver





Mounting information

Air volume occupied by the driver	10 ⁻³ .m ³	0.50
Speaker net mass	kg	2.15
Baffle cut-out diameter (front mounting)	mm	146.0
Bolt number & Metric diameter	-	4x M5
Bolt circle diameter	mm	172.0
Max overall dimension (on ears)	mm	187.5
Max overall dimension (out of ears)	mm	162.5
Flange height	mm	8.0
Max magnet diameter	mm	117.5
Max depth (front mounting)	mm	68.5
Recommended reflex box	Lts / Hz	-
Electrical connection	cal connection 6.35x0.8	

Architecture highlights :

- Studio Monitoring version of PHL Audio 1180
- High excursion S roll rubber surround
- High definition ultra light CCAR Voice coil
- Natural convection Intercooler System
- Both side coated curvilinear cone

Motor architecture

Magnet material	-	Fe
Voice coil diameter	mm	38
Voice coil length	mm	13
Air gap height	mm	6

Typical characteristics

Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	91.5
Usable freq. range	-	Hz	50 - 4000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPL _{max}	dB SPL	108
Min. impedance modulus	Z _{min}	Ω@Hz	6.6@360
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0.638
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.229
BL product	BL	N/A	8.3
Moving mass	Mms	kg	0.0120

Thiele-Small parameters

Resonance frequency	Fs	Hz	55 (±7)
DC Resistance	Re	Ω	6.1 (±0.6)
Mechanical quality factor	Qms	1	3.76
Electrical quality factor	Qes	1	0.37
Total quality factor	Qts	1	0.33
Suspension compliance	Cms	10 ⁻⁶ .m/N	700
Effective piston area	Sd	m²	0.0143
Equivalent Cas air load	Vas	m³	0.0203
Max linear excursion	Xmax	mm	± 4.0
Linear displacement volume	Vd	10 ⁻³ .m ³	0.0573
Reference efficiency	η_0	%	0.9
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	2.3

Absolute maximum ratings

Short term max. input voltage	Vmax	V	55
Max.excursion before damage	Xdam	mm	± 8.0
Ambient operating temperature	Та	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			tropical



6.5 inches bass driver

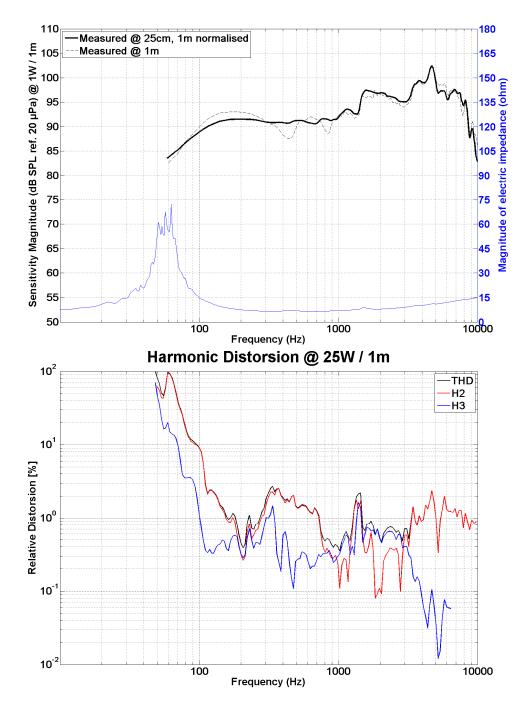


SPL curves measured on CEI standard baffle :

- . 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

