

## 1230

Nominal Diameter
Rated Impedance
Sensitivity
Power Handling Capacity
SPL max (continuous)
Usable frequency range
Speaker net mass

6.5 " / 17 cm
16
92 dB SPL
100 W AES
108 dB SPL
50 - 4000 Hz

## Architecture highlights :

- High excursion S roll rubber surround
- High definition ultra light CCAR Voice coil
- Natural convection Intercooler System
- Both side coated curvilinear cone

## 6.5 inches bass driver



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

Typical characteristics

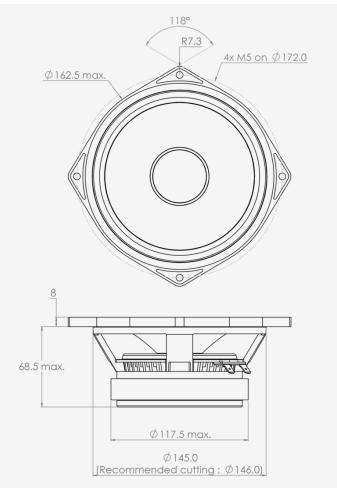
Rated impedance	Z	Ω	16
Half space sensitivity (1W@1m)	-	dB SPL	92.0
Usable freq. range	-	Hz	50 - 4000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	108
Min. impedance modulus	$Z_{min}$	Ω@Hz	13.5@360
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	1.329
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0.463
BL product	BL	N/A	11.9
Moving mass	Mms	kg	0.0117

Thiele-Small parameters

Resonance frequency	Fs	Hz	54 (±7)
DC Resistance	Re	Ω	12.1 (±1.2)
Mechanical quality factor	Qms	1	3.59
Electrical quality factor	Qes	1	0.34
Total quality factor	Qts	1	0.31
Suspension compliance	Cms	10 <sup>-6</sup> .m/N	750
Effective piston area	Sd	$m^2$	0.0143
Equivalent Cas air load	Vas	$m^3$	0.0218
Max linear excursion	Xmax	mm	± 4.5
Linear displacement volume	Vd	10 <sup>-3</sup> .m <sup>3</sup>	0.0644
Reference efficiency	$\eta_0$	%	1.0
Unity load volume	Vas.Qts <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	2.1

Absolute maximum ratings

Short term max. input voltage	Vmax	V	80
Max.excursion before damage	Xdam	mm	± 8.0
Ambient operating temperature	Ta	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			tropical



**Mounting information** 

10 <sup>-3</sup> .m <sup>3</sup>	0.50
kg	2.15
mm	146.0
-	4x M5
mm	172.0
mm	187.5
mm	162.5
mm	8.0
mm	117.5
mm	68.5
Lts / Hz	
6.35x0.8 FASTON	
	kg mm - mm mm mm mm mm mm this / Hz





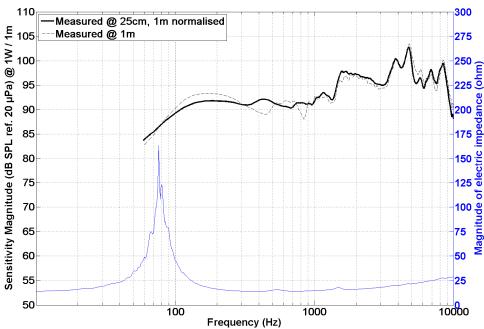


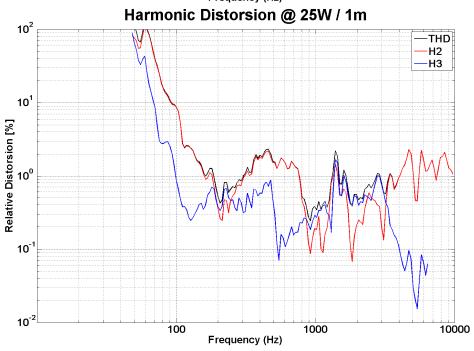
SPL curves measured on CEI standard baffle :

- . 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

