



PHL Audio HP1380

6.5 inches bass driver

Nominal Diameter	17 cm / 6.5 "
Rated Impedance	16 Ω
Reference efficiency (1W @ 1m)	92 dB SPL
Power Handling Capacity	100 W AES
SPL max (continuous)	108 dB SPL
Usable frequency range	50 - 4000 Hz
Speaker net mass	2.15 kg

Architecture highlights :

- High excursion S roll rubber surround
- Natural convection Intercooler System



Motor architecture			
Voice coil diameter	mm	38	
Voice coil length	mm	12.5	
Air gap height	mm	6	

Typical characteristics			
Rated impedance	Z	Ω	16
Half space sensitivity (1W@1m)	-	dB SPL	92
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	14.2@330
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.356
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.504
BL product	BL	N/A	13.1
Moving mass	Mms	kg	0.013

Thiele-Small parameters			
Resonance frequency	Fs	Hz	55 (± 8)
DC Resistance	Re	Ω	12.1 (± 1.2)
Mechanical quality factor	Qms	1	3.93
Electrical quality factor	Qes	1	0.30
Total quality factor	Qts	1	0.28
Suspension compliance	Cms	10 ⁻⁶ .m/N	670
Effective piston area	Sd	m ²	0.0143
Equivalent Cas air load	Vas	m ³	0.0192
Max linear excursion	Xmax	mm	± 4.0
Linear displacement volume	Vd	10 ⁻³ .m ³	0.0573
Reference efficiency	η_0	%	1.0
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	1.5

Absolute maximum ratings			
Short term max. input voltage	Vmax	V	80
Max.excursion before damage	Xdam	mm	4.0
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ C	-20 to +70
Environmental withstanding			indoor

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	12L / 65Hz
Electrical connection	6.35x0.8 FASTON	

