



PHL Audio HP2710

8" bass driver with lightweight ferrite

Nominal Diameter	20 cm / 8 "
Rated Impedance	8 Ω or 10 Ω
Reference efficiency (1W @ 1m)	94 dB SPL
Power Handling Capacity	350 W AES
SPL max (continuous)	115 dB SPL
Usable frequency range	60 - 3000 Hz
Speaker net mass	3.6 kg

Architecture highlights :

Noiseless natural convection Intercooling System

2.80 kg lightweight ferrite magnet system with symmetric BL(x)

High excursion suspension designed for large signal



Motor architecture		
Magnet material	-	Fe
Voice coil diameter	mm	51
Voice coil length	mm	22
Air gap height	mm	9

Typical characteristics			
Rated impedance	Z	Ω	8 或 10
Half space sensitivity (1W@1m)	-	dB SPL	94
Usable freq. range	-	Hz	60 - 3000
Power handling capacity (AES)	-	W	350
Max Sound Pressure Level	SPL _{max}	dB SPL	115
Min. impedance modulus	Z _{min}	Ω @Hz	9.0@350
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.414
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.511
BL product	BL	N/A	15.4
Moving mass	Mms	kg	0.026

Thiele-Small parameters			
Resonance frequency	Fs	Hz	70 (± 10)
DC Resistance	Re	Ω	7.3 (± 0.7)
Mechanical quality factor	Qms	1	2.86
Electrical quality factor	Qes	1	0.35
Total quality factor	Qts	1	0.31
Suspension compliance	Cms	10 ⁻⁶ .m/N	200
Effective piston area	Sd	m ²	0.0232
Equivalent Cas air load	Vas	m ³	0.0150
Max linear excursion	Xmax	mm	± 9
Linear displacement volume	Vd	10 ⁻³ .m ³	0.2091
Reference efficiency	η_0	%	1.4
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	1.5

Absolute maximum ratings			
Short term max. input voltage	Vmax	V	120
Max.excursion before damage	Xdam	mm	± 19
Ambient operating temperature	Ta	$^{\circ}\text{C}$	-10 to +50
Storage temperature		$^{\circ}\text{C}$	-20 to +70
Environmental withstanding			Tropical

Mounting information		
Air volume occupied by the driver	10 ⁻³ .m ³	0.9
Speaker net mass	kg	3.65
Baffle cut-out diameter (front mounting)	mm	185
Bolt number & Metric diameter	-	4x M5
Bolt circle diameter	mm	217
Max overall dimension (on ears)	mm	234.5
Max overall dimension (out of ears)	mm	204
Flange height	mm	9.5
Max magnet diameter	mm	136
Max depth (front mounting)	mm	98.5
Recommended reflex box	Lts / Hz	17L / 60Hz
Electrical connection	6.35x0.8 FASTON	

