



PHL Audio 5201M

15 inches bass driver

Nominal Diameter	38 cm / 15 "
Rated Impedance	4 Ω
Reference efficiency (1W @ 1m)	97 dB SPL
Power Handling Capacity	500 W AES
SPL max (continuous)	120 dB SPL
Usable frequency range	40 - 2000 Hz
Speaker net mass	7.7 kg

Architecture highlights :

- Natural convection Intercooling System
- High compliance double half-roll fabric surround
- Ultra light injection molded basket



Motor architecture		
Magnet material	-	Fe
Voice coil diameter	mm	77
Voice coil length	mm	20
Air gap height	mm	10

Typical characteristics			
Rated impedance	Z	Ω	4
Half space sensitivity (1W@1m)	-	dB SPL	97.0
Usable freq. range	-	Hz	40 - 2000
Power handling capacity (AES)	-	W	500
Max Sound Pressure Level	SPL _{max}	dB SPL	120
Min. impedance modulus	Z _{min}	Ω @Hz	3.5@210
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0.864
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.387
BL product	BL	N/A	16.4
Moving mass	M _{ms}	kg	0.114

Thiele-Small parameters			
Resonance frequency	Fs	Hz	38 (± 5)
DC Resistance	Re	Ω	3 (± 0.3)
Mechanical quality factor	Q _{ms}	1	4.54
Electrical quality factor	Q _{es}	1	0.30
Total quality factor	Q _{ts}	1	0.28
Suspension compliance	C _{ms}	10^{-6} .m/N	150
Effective piston area	S _d	m ²	0.0892
Equivalent Cas air load	V _{as}	m ³	0.1714
Max linear excursion	X _{max}	mm	± 7.5
Linear displacement volume	V _d	10^{-3} .m ³	0.6690
Reference efficiency	η_0	%	3.0
Unity load volume	V _{as} .Q _{ts} ²	10^{-3} .m ³	13.9

Absolute maximum ratings			
Short term max. input voltage	V _{max}	V	90
Max. excursion before damage	X _{dam}	mm	± 14.0
Ambient operating temperature	T _a	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ C	-20 to +70
Environmental withstanding			humidityproof

Mounting information		
Air volume occupied by the driver	10^{-3} .m ³	4.40
Speaker net mass	kg	7.7
Baffle cut-out diameter (front mounting)	mm	356.0
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	370 & 388
Max overall dimension (on ears)	mm	406.5
Max overall dimension (out of ears)	mm	380.5
Flange height	mm	13.0
Max magnet diameter	mm	204.0
Max depth (front mounting)	mm	155.5
Recommended reflex box	Lts / Hz	75L / 44Hz
Electrical connection		$\varnothing 4$ mm Push buttons

