



# PHL Audio 6321MNd

## 15 inches bass driver

Nominal Diameter	<b>38 cm / 15 "</b>
Rated Impedance	<b>8 Ω</b>
Reference efficiency (1W @ 1m)	<b>96,5 dB SPL</b>
Power Handling Capacity	<b>1000 W AES</b>
SPL max (continuous)	<b>124 dB SPL</b>
Usable frequency range	<b>30 - 1000 Hz</b>
Speaker net mass	<b>5,7 kg</b>

### Architecture highlights :

- Ultra light injection molded Magnesium basket
- Neodymium magnet system with symmetric BL(x) and Le(x) characteristics
- Forced-air Intercooling System for low thermal compression
- Heavy duty long excursion suspension with linear behavior for large signal
- Dual side coating diaphragm for excellent sound reproduction and tropical withstanding



### Motor architecture

Magnet material	-	Nd
Voice coil diameter	mm	101
Voice coil length	mm	26
Air gap height	mm	10

### Typical characteristics

Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	96,5
Usable freq. range	-	Hz	30 - 1000
Power handling capacity (AES)	-	W	1000
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	124
Min. impedance modulus	Z <sub>min</sub>	Ω@Hz	6.3@260
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	1,686
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0,729
BL product	BL	N/A	28,0
Moving mass	Mms	kg	0,151

### Thiele-Small parameters

Resonance frequency	Fs	Hz	34.038 (±5)
DC Resistance	Re	Ω	5.2 (±0.5)
Mechanical quality factor	Qms	1	3,23
Electrical quality factor	Qes	1	0,21
Total quality factor	Qts	1	0,20
Suspension compliance	Cms	10 <sup>-6</sup> .m/N	140
Effective piston area	Sd	m <sup>2</sup>	0,0871
Equivalent Cas air load	Vas	m <sup>3</sup>	0,1538
Max linear excursion	Xmax	mm	± 10,5
Linear displacement volume	Vd	10 <sup>-3</sup> .m <sup>3</sup>	0,9145
Reference efficiency	η <sub>0</sub>	%	2,7
Unity load volume	Vas.Qts <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	6,2

### Absolute maximum ratings

Short term max. input voltage	Vmax	V	180
Max.excursion before damage	Xdam	mm	± 19,0
Ambient operating temperature	Ta	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Tropical

### Mounting information

Air volume occupied by the driver	10 <sup>-3</sup> .m <sup>3</sup>	4,2
Speaker net mass	kg	5,7
Baffle cut-out diameter (front mounting)	mm	355,0
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	370 and 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	140,0
Max depth (front mounting)	mm	173,0
Recommended reflex box	Lts / Hz	100L / 35Hz
Electrical connection		Ø4 mm Push buttons

