



PHL Audio 4071NdU-19

12 inches bass driver for 1.4" coaxial usage

Nominal Diameter	30 cm / 12 "
Rated Impedance	8 Ω
Reference efficiency (1W @ 1m)	97 dB SPL
Power Handling Capacity	400 W AES
SPL max (continuous)	120 dB SPL
Usable frequency range	50 - 2500 Hz
Speaker net mass	6.3 kg

Architecture highlights :

- Noiseless Natural Convection Intercooling System
- Front side coated curvilinear cone designed for 2 way systems operation
- Neodymium magnet System with symmetric BL(x) and Le(x) characteristics
- Coaxial apparatus "-19" with 2x M6 on Ø 76.2 mm
(Max diameter for HF driver = 144.0 mm)



Motor architecture

Voice coil diameter	mm	77
Voice coil length	mm	17
Air gap height	mm	8

Typical characteristics

Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	97.0
Usable freq. range	-	Hz	50 - 2500
Power handling capacity (AES)	-	W	400
Max Sound Pressure Level	SPL _{max}	dB SPL	120
Min. impedance modulus	Z _{min}	Ω@Hz	6.1@310
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.295
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.584
BL product	BL	N/A	23.0
Moving mass	M _{ms}	kg	0.069

Thiele-Small parameters

Resonance frequency	F _s	Hz	46 (±5)
DC Resistance	Re	Ω	4.9 (±0.5)
Mechanical quality factor	Q _{ms}	1	4.99
Electrical quality factor	Q _{es}	1	0.18
Total quality factor	Q _{ts}	1	0.18
Suspension compliance	C _{ms}	10 ⁻⁶ .m/N	170
Effective piston area	S _d	m ²	0.0493
Equivalent Cas air load	V _{as}	m ³	0.0590
Max linear excursion	X _{max}	mm	± 6.0
Linear displacement volume	V _d	10 ⁻³ .m ³	0.2957
Reference efficiency	η ₀	%	3.0
Unity load volume	V _{as} .Q _{ts} ²	10 ⁻³ .m ³	1.9

Absolute maximum ratings

Short term max. input voltage	V _{max}	V	115
Max.excursion before damage	X _{dam}	mm	16.0
Ambient operating temperature	T _a	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			humidityproof

Mounting information

Air volume occupied by the driver	10 ⁻³ .m ³	2.10
Speaker net mass	kg	6.30
Baffle cut-out diameter (front mounting)	mm	282.0
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	300 to 308
Max overall dimension (on ears)	mm	326.5
Max overall dimension (out of ears)	mm	307.0
Flange height	mm	13.0
Max magnet diameter	mm	140.0
Max depth (front mounting)	mm	141.5
Recommended reflex box	Lts / Hz	35L / 63Hz
Electrical connection		Ø4 mm Push buttons

