



HP7243Nd

Nominal Diameter	18 " / 46 cm
Rated Impedance	6 Ω
Sensitivity	98.5dB SPL
Power Handling Capacity	800 W AES
SPL max (continuous)	125 dB SPL
Usable frequency range	30 - 800 Hz
Speaker net mass	7.4 kg

18 inches bass driver



Architecture highlights :

- Natural convection Intercooling system for noiseless sound reproduction
- Neodymium magnet system with symmetric BL(x) and Le(x) characteristics
- Heavy duty long excursion suspension with linear behavior for large signal

Motor architecture

Magnet material	-	Nd
Voice coil diameter	mm	101
Voice coil length	mm	17
Air gap height	mm	10

Typical characteristics

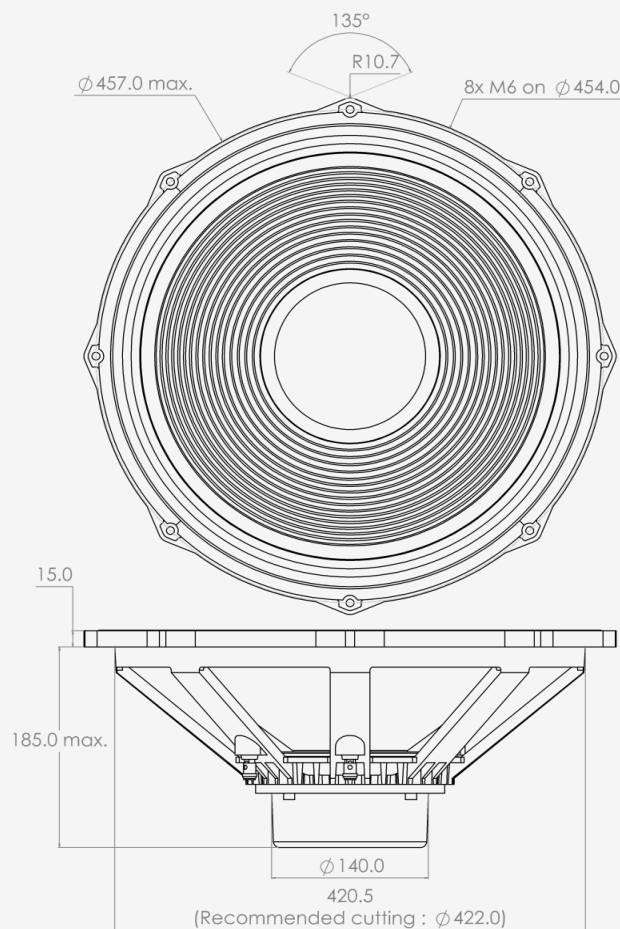
Rated impedance	Z	W	6
Half space sensitivity (1W@1m)	-	dB SPL	98.5
Usable freq. range	-	Hz	30 - 800
Power handling capacity (AES)	-	W	800
Max Sound Pressure Level	SPL _{max}	dB SPL	125
Min. impedance modulus	Z _{min}	W@Hz	5.4@230
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.329
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.697
BL product	BL	N/A	28.3
Moving mass	Mms	kg	0.1950

Thiele-Small parameters

Resonance frequency	Fs	Hz	37 (± 5)
DC Resistance	Re	W	4.1 (± 0.4)
Mechanical quality factor	Qms	1	5.67
Electrical quality factor	Qes	1	0.23
Total quality factor	Qts	1	0.22
Suspension compliance	Cms	10 ⁻⁶ .m/N	90
Effective piston area	Sd	m ²	0.1250
Equivalent Cas air load	Vas	m ³	0.2077
Max linear excursion	Xmax	mm	± 6.0
Linear displacement volume	Vd	10 ⁻³ .m ³	0.7502
Reference efficiency	h ₀	%	4.4
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	10.3

Absolute maximum ratings

Short term max. input voltage	Vmax	V	140
Max.excursion before damage	Xdam	mm	± 16.0
Ambient operating temperature	Ta	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Humidity proof



Mounting information

Air volume occupied by the driver	10 ⁻³ .m ³	6.20
Speaker net mass	kg	7.4
Baffle cut-out diameter (front mounting)	mm	422.0
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	454.0
Max overall dimension (on ears)	mm	476.0
Max overall dimension (out of ears)	mm	457.0
Flange height	mm	15.0
Max magnet diameter	mm	140.0
Max depth (front mounting)	mm	185.0
Recommended reflex box	Lts / Hz	120L/48Hz
Electrical connection		$\phi 4$ mm Push buttons