

4031

Nominal Diameter
Rated Impedance
8
Sensitivity
95 dB SPL
Power Handling Capacity
SPL max (continuous)
118 dB SPL
Usable frequency range
Speaker net mass
8.9 kg

12 inches bass driver



Architecture highlights:

- Natural convection Intercooling System
- Both sides coated Curvilinear cone (Tropical withstanding)
- High compliance double half-roll fabric surround

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

Typical characteristics

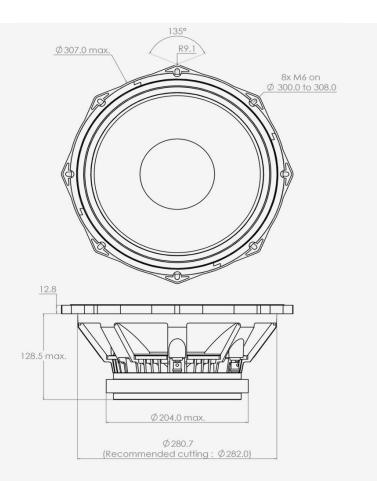
Typical characteriotics			
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	95.0
Usable freq. range	-	Hz	40 - 2000
Power handling capacity (AES)	-	W	500
Max Sound Pressure Level	SPL _{max}	dB SPL	118
Min. impedance modulus	Z_{min}	Ω@Hz	6.9@260
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.241
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.572
BL product	BL	N/A	20.5
Moving mass	Mms	kg	0.0780

Thiele-Small parameters

Resonance frequency	Fs	Hz	44 (±6)
DC Resistance	Re	Ω	5.6 (±0.6)
Mechanical quality factor	Qms	1	5.36
Electrical quality factor	Qes	1	0.29
Total quality factor	Qts	1	0.27
Suspension compliance	Cms	10 ⁻⁶ .m/N	170
Effective piston area	Sd	m^2	0.0539
Equivalent Cas air load	Vas	m^3	0.0700
Max linear excursion	Xmax	mm	± 7.5
Linear displacement volume	Vd	10 ⁻³ .m ³	0.4043
Reference efficiency	η_0	%	2.0
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	5.1

Absolute maximum ratings

Absolute maximum rutings	,		
Short term max. input voltage	Vmax	V	125
Max.excursion before damage	Xdam	mm	± 14.0
Ambient operating temperature	Та	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Tropical



Mounting information

mounting mornation		
Air volume occupied by the driver	10 ⁻³ .m ³	2.70
Speaker net mass	kg	8.90
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	12.8
Max magnet diameter	mm	204.0
Max depth (front mounting)	mm	128.5
Recommended reflex box	Lts / Hz	-
Electrical connection	Ø4 mm	Push buttons

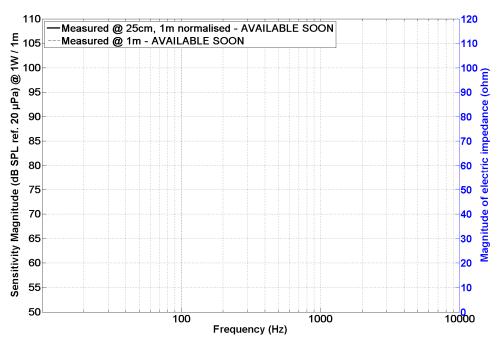


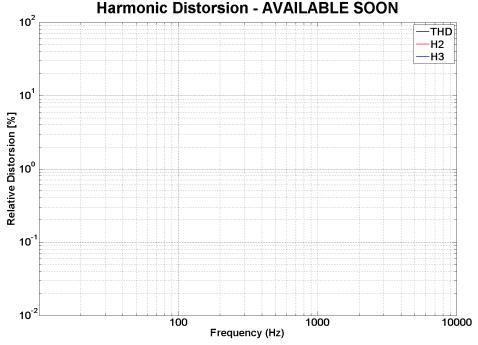
SPL curves measured on CEI standard baffle :

- . at 25 cm, normalised 1 m
- . at 1 m for reference
- . Graph amplitude = 60 dB (PHL Audio standard)

HD curve measured on CEI standard baffle:

- . at 1 meter
- . at power = $P_AES/4$
- . Graph amplitude 0.01 % to 100 % (PHL Audio standard for P_AES/4)





Non linear curves measured thanks to Klippel software and hardware, in free air

