5051M

15" bass driver

Nominal Diameter	**15 " / 38 cm**
Rated Impedance	**8 q**
Sensitivity	**98 dB SPL**
Power Handling Capacity	**500 W AES**
SPL max (continuous)	**121 dB SPL**
Usable frequency range	**40 - 2000 Hz**
Speaker net mass	**7.7 kg**

Architecture highlights :

- Natural convection Intercooling System
- Front side coated curvilinear cone
- 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

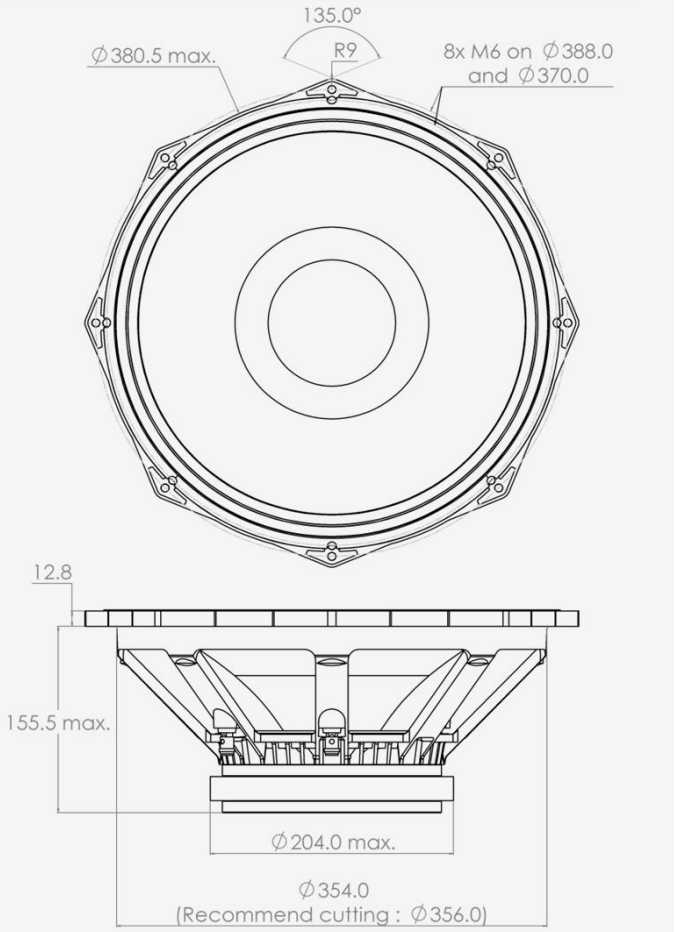
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	98.0
Usable freq. range	-	Hz	40 - 2000
Power handling capacity (AES)	-	W	500
Max Sound Pressure Level	SPL_{max}	dB SPL	121
Min. impedance modulus	Z_{min}	Ω@Hz	6.9@220
Voice-coil inductance @ 1kHz	Le_{1k}	mH	1.725
Voice-coil inductance @ 10kHz	Le_{10k}	mH	0.743
BL product	BL	N/A	23.4
Moving mass	Mms	kg	0.1100

Thiele-Small parameters

Resonance frequency	Fs	Hz	37 (±5)
DC Resistance	Re	Ω	5.6 (±0.6)
Mechanical quality factor	Qms	1	4.26
Electrical quality factor	Qes	1	0.26
Total quality factor	Qts	1	0.25
Suspension compliance	Cms	10^{-6}.m/N	170
Effective piston area	Sd	m^2	0.0892
Equivalent Cas air load	Vas	m^3	0.1874
Max linear excursion	Xmax	mm	± 6.0
Linear displacement volume	Vd	$10^{-3}.m^3$	0.5352
Reference efficiency	η_0	%	3.5
Unity load volume	$Vas.Qts^2$	$10^{-3}.m^3$	11.4

Absolute maximum ratings

Short term max. input voltage	Vmax	V	125
Max.excursion before damage	Xdam	mm	± 14.0
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	$10^{-3}.m^3$	4.40
Speaker net mass	kg	7.70
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	-
Electrical connection	Ø4 mm Push b	

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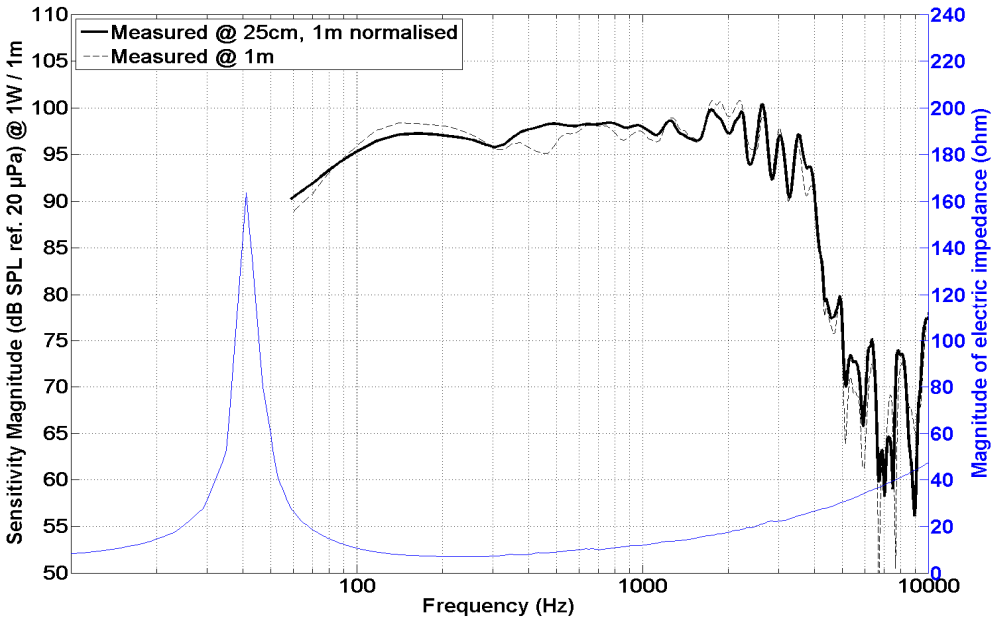
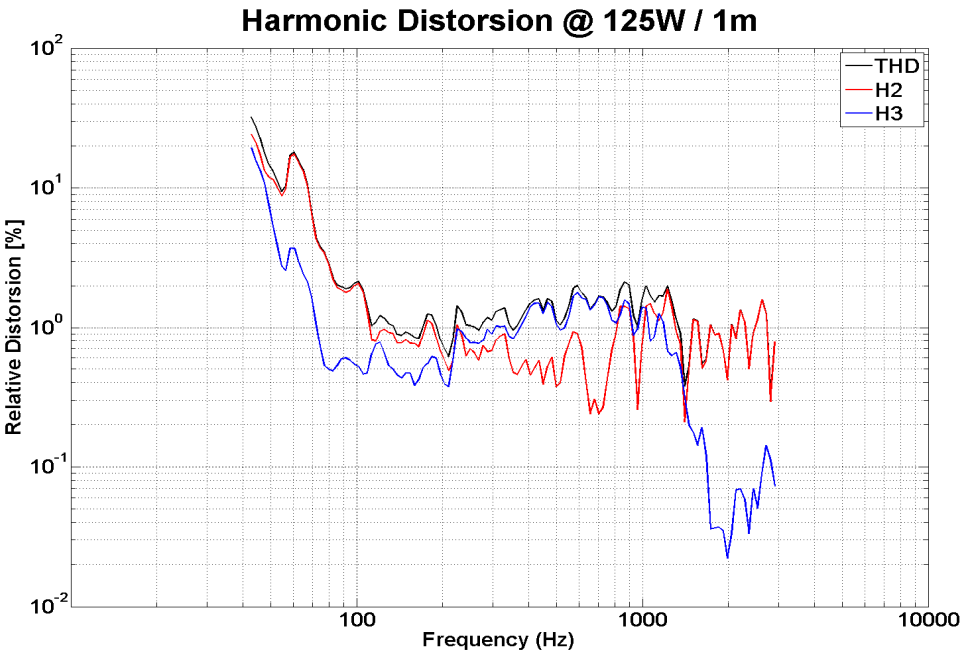
SPL curves measured on CEI standard baffle :
. at 25 cm, normalised 1 m
. at 1 m for reference
. Graph amplitude = 60 dB (PHL Audio standard)



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