

## 3840

Nominal Diameter
Rated Impedance
8
Sensitivity
96.5 dB SPL
Power Handling Capacity
SPL max (continuous)
Usable frequency range
Speaker net mass
10 " / 25 cm
8
250 W AES
116 dB SPL
60 - 3000 Hz

## 10 inches bass driver



## Architecture highlights:

- Natural convection Intercooler System
- High compliance double half-roll Fabric Surround
- Ultra light CCAR voice coil

Motor architecture		
Magnet material	-	Fe
Voice coil diameter	mm	77
Voice coil length	mm	15
Air gap height	mm	10

Typical characteristics

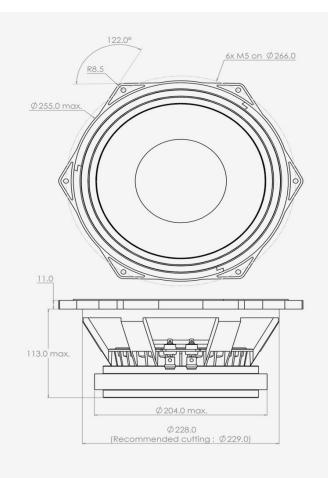
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	96.5
Usable freq. range	-	Hz	60 - 3000
Power handling capacity (AES)	-	W	250
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	116
Min. impedance modulus	$Z_{min}$	Ω@Hz	6.9@320
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	1.060
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0.501
BL product	BL	N/A	20.9
Moving mass	Mms	kg	0.0450

Thiele-Small parameters

Resonance frequency	Fs	Hz	62 (±18)
DC Resistance	Re	Ω	5.6 (±0.6)
Mechanical quality factor	Qms	1	5.01
Electrical quality factor	Qes	1	0.22
Total quality factor	Qts	1	0.22
Suspension compliance	Cms	10 <sup>-6</sup> .m/N	150
Effective piston area	Sd	$m^2$	0.0356
Equivalent Cas air load	Vas	$m^3$	0.0263
Max linear excursion	Xmax	mm	± 4.5
Linear displacement volume	Vd	10 <sup>-3</sup> .m <sup>3</sup>	0.1782
Reference efficiency	$\eta_0$	%	2.7
Unity load volume	Vas.Qts <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	1.2

Absolute maximum ratings

Thousand maximum rating			
Short term max. input voltage	Vmax	V	90
Max.excursion before damage	Xdam	mm	± 12.0
Ambient operating temperature	Та	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Humidity proof



**Mounting information** 

Air volume occupied by the driver	10 <sup>-3</sup> .m <sup>3</sup>	2.00
Speaker net mass	kg	8.20
Baffle cut-out diameter (front mounting)	mm	229.0
Bolt number & Metric diameter	-	6x M5
Bolt circle diameter	mm	266.0
Max overall dimension (on ears)	mm	283.5
Max overall dimension (out of ears)	mm	255.0
Flange height	mm	11.0
Max magnet diameter	mm	204.0
Max depth (front mounting)	mm	113.0
Recommended reflex box	Lts / Hz	-
Electrical connection	Ø4 mm Push buttons	

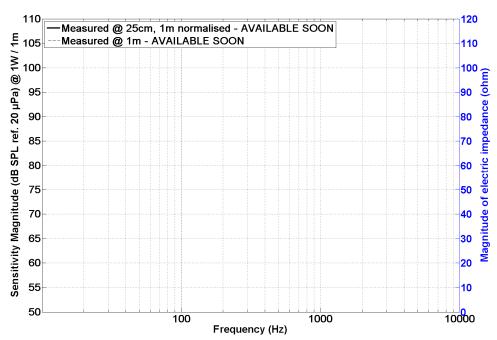


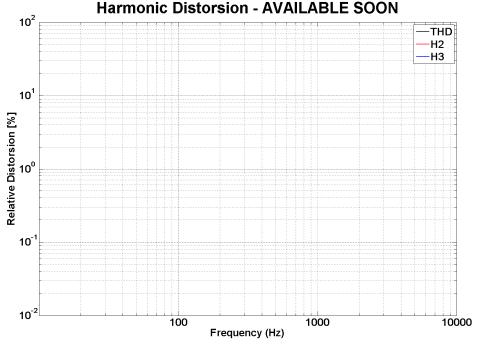
SPL curves measured on CEI standard baffle :

- . 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

