



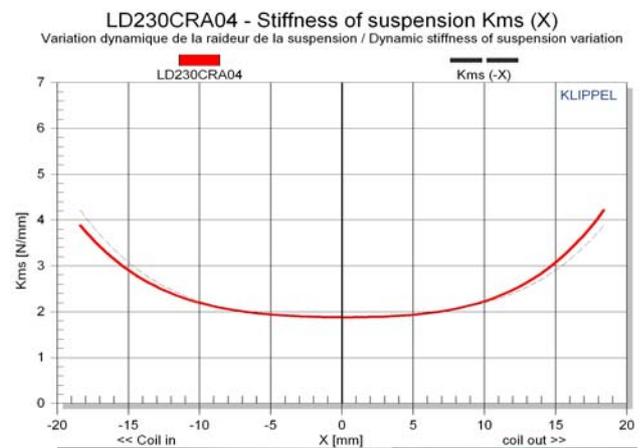
The latest generation LD 230 « CRA » is the result of the experience and expertise acquired by our laboratory during the successive developments and productions of the previous generations of LD210 and LD230. Equipped following the latest refinements, these new 23 cm units are pushing the limits at the furthest of what can be expected from a driver of this diameter . Unprecedented performances whether used inside an active subwoofer or as a low frequency driver in a very High end loudspeaker.

LD 230 CRA : an "ATOHM 's concentrate" !

The suspension with its LDS profile and the spider with its progressive geometry have undergone extensive studies and many computer simulations (finite elements method) in order to guarantee a wide range of linear excursion .

The spider features a special material chosen for its very low level of creeping and offers a steady stiffness coefficient on its nominal excursion. As for the suspension, not only does it feature a virtually perfect linearity during maximum excursion, but it also keeps a perfect geometry under the strongest mechanical strains. (for example : low volume closed enclosure or physical pressure at the tuned frequency of a bass reflex speaker) In order to limit "dynamic DC shifts, these 2 components are acting in a totally symmetric way.

The Cone , made up in a specific alloy , has also been optimized in order to guarantee perfect rigidity on a very large frequency range and under the strongest mechanical strains.



The imposing size of the Motor (156mm diameter) benefits from the FWI (Force without Inductance) technology.

Skillfully sized, the polar parts and the copper ring allow for great reduction and linearization of the inductance value.

Depending on the driver units, the voice coils are fabricated with copper wire or with copper clad aluminum wire (CCAW) .

There as well, the system is optimized to provide a force factor which is linear and symmetrical on the broadest range possible of power and excursion.

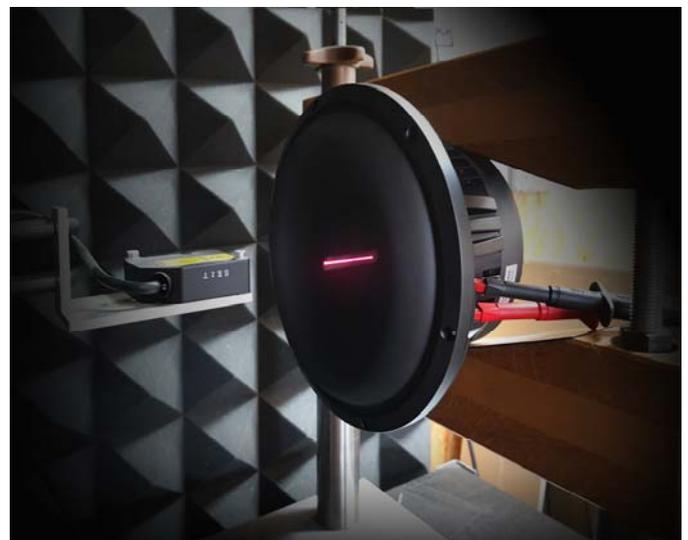
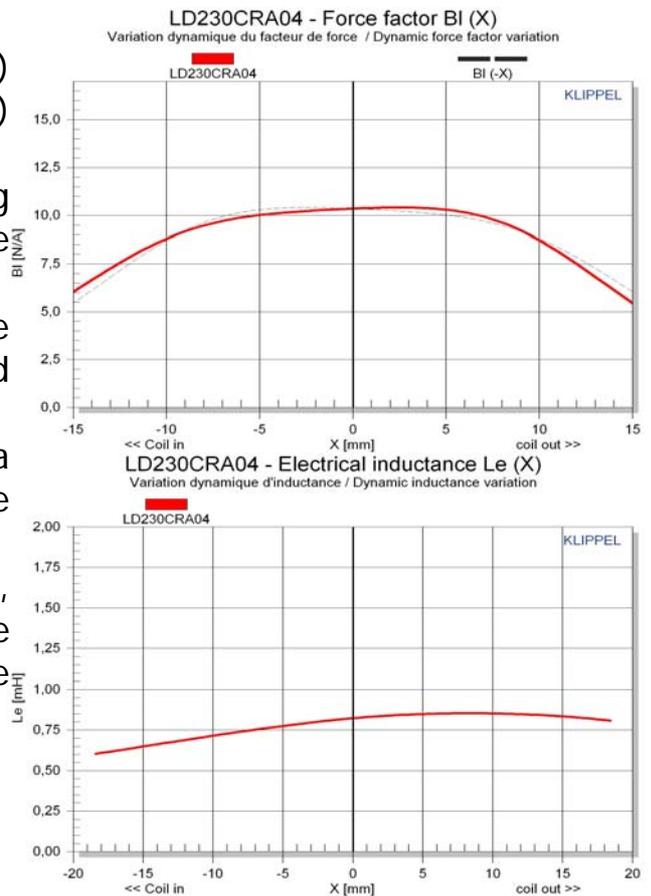
In order to reduce drastically functioning noises, under high amplitudes and to improve cooling, the Frame ,(made up of injected aluminum), and the Cone have large openings for ventilation.

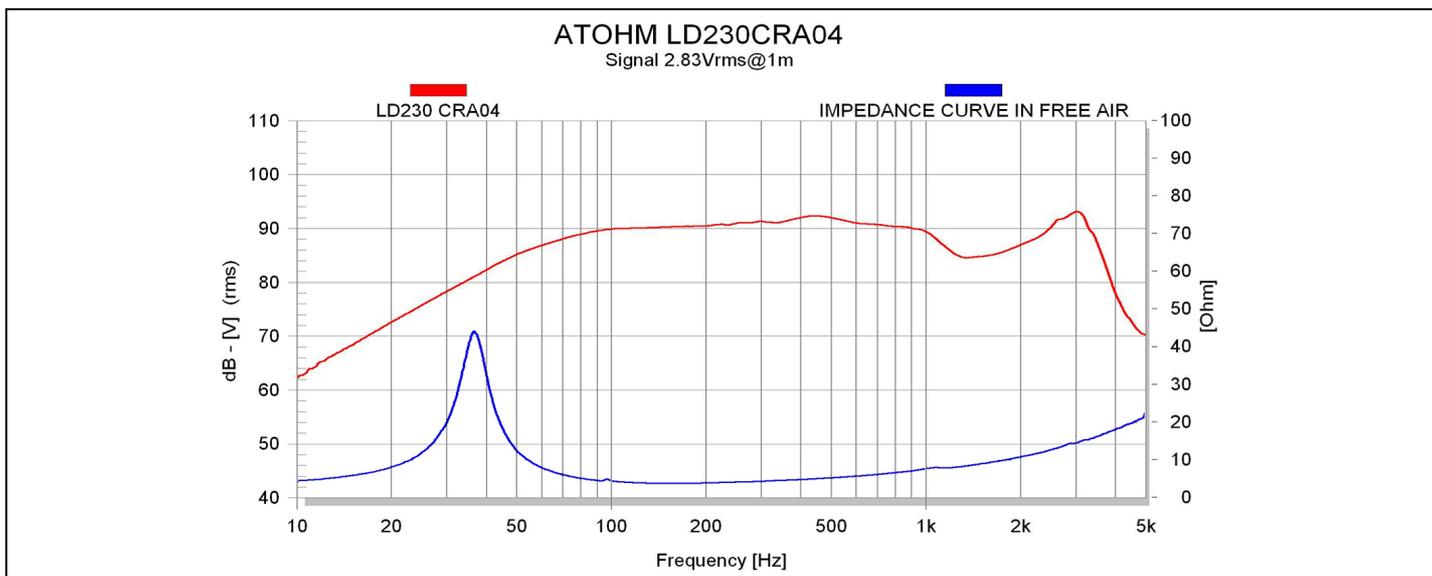
This exceptional unit exists in 3 versions :

LD230CRA04 : geared towards being used as a single unit in a ported or closed enclosure.

LD230CRA08 : dedicated to fit into a ported enclosure.

LD230CRA08M : is specifically optimized for use in a small volume closed enclosure. In these 2 versions, depending on the application required and depending on the capacity of the amplifier, 2 to 3 units can be configured in parallel.





Power handling (Rms)	300 W
Peak power	600 W
Sensitivity	90 dB/2.83V/1M
Nominal impedance	4 ohms
DC resistance	3.1 ohms
Resonance frequency	34.4 Hz
QTS	0.35
QES	0.38
QMS	5.0
Cms	0.33 mm/N
Mms	64 gr
Vas	27.4 L
BL	10.4 N/A
Le	0.85mH
Emissive surface	240cm ²
Coil diameter	50mm
Coil height	32mm
Air gap height	8mm
Flux density	10000 gauss
Linear excursion	+/- 12mm
Maximum excursion	+/- 20mm
Recommended roll off frequency	500 Hz
Weight	5.2 kg

Low amplitude parameters obtained with maximum precision by simultaneously measuring the displacement of the moving part and the current passing through the coil. (Klippel analyser and laser micrometer sensor on high stability bench.

Measurement conditions of the frequency response: sweep 2.83Vrms, distance 50cm (compensated 1m), closed box volume 26L, ground plane.

