

● *Woofer model: AUGWL0030-JN02*

This 12 inch 8 ohm Woofer driver features a strong ferrite magnet motor system with bump bottom plate and longthrow voice coil, which has high excursion. The distortion can be decreased by Aluminum short circuit ring at low frequency, the semi-pressed paper cone uses a new mixed material of 40% pulp and 60% carbon fiber to make the sound stronger and sonorous. Beyond that, the wonderful collocation of foamed rubber surrounding, CCAW and short circuit ring can provide high SPL and extended high frequency.

● *Transducer front and side images:*



Prototype



● *Specifications:*

*T-S Parameters*

|                               |                        |
|-------------------------------|------------------------|
| Resonance frequency [fs]      | 34 Hz                  |
| Mechanical Q factor [Qms]     | 6.220                  |
| Electrical Q factor [Qes]     | 0.425                  |
| Total Q factor [Qts]          | 0.398                  |
| Force factor [Bl]             | 15.0 Tm                |
| Mechanical resistance [Rms]   | 2.642 kg/s             |
| Moving mass [Mms]             | 77.521 g               |
| Compliance [Cms]              | 0.287 mm/N             |
| Effective diaph. diameter [D] | 260 mm                 |
| Effective piston area [Sd]    | 530.93 cm <sup>2</sup> |
| Equivalent volume [Vas]       | 114.5 l                |
| Sensitivity (2.83V/1m)        | 91 dB                  |
| Ratio Bl/√Re                  | 6.41 N/√W              |
| Ratio fs/Qts                  | 85.4 Hz                |

*Electrical Data*

|                            |          |
|----------------------------|----------|
| Nominal impedance [Zn]     | 8 Ω      |
| Minimum impedance [Zmin]   | 6.3 Ω    |
| Maximum impedance [Zo]     | 64.87 Ω  |
| DC resistance [Re]         | 5.5 Ω    |
| Voice coil inductance [Le] | 0.391 mH |

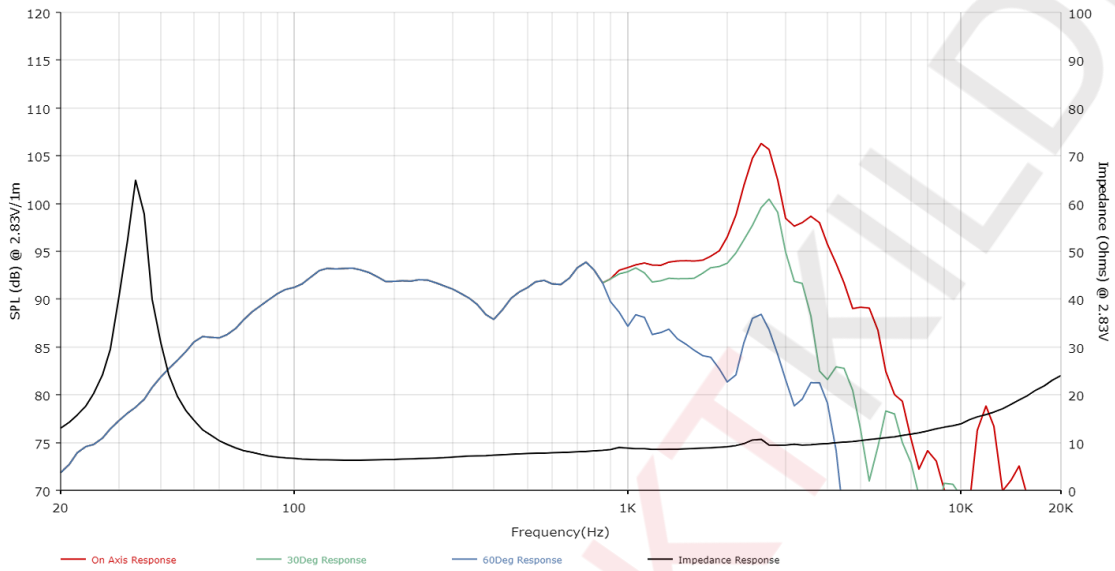
*Power Handling*

|                                |       |
|--------------------------------|-------|
| 100h RMS noise test (IEC 18.4) | 100 W |
| Long-term max power (IEC 18.2) | 200 W |

*Voice Coil & Magnet Data*

|                     |           |
|---------------------|-----------|
| Voice coil diameter | 75.5 mm   |
| Voice coil height   | 20.5 mm   |
| Voice coil layers   | 1         |
| Height of gap       | 13 mm     |
| Linear excursion    | ± 3.75 mm |
| Max mech. excursion | ± 18.5 mm |
| Unit weight         | 7.5 kg    |

● Frequency Response / Impedance Curve:



● Transducer front and side images:

