



Model # BWF 8001 Part # 82132  
8" Stamped Frame Subwoofer, 4 ohm



### Key Features

- High Excursion Woofer/Subwoofer
- 8" (203 mm) stamped-steel basket - deep draw below spider
- 75 watts, 4 ohms, 87 dB SPL
- 1.5" voice coil, copper wire on aluminum former
- Dual ferrite magnet for high Bg and X-mech
- Highly damped Abaca fiber cone with half roll rubber edge

### Primary Specifications

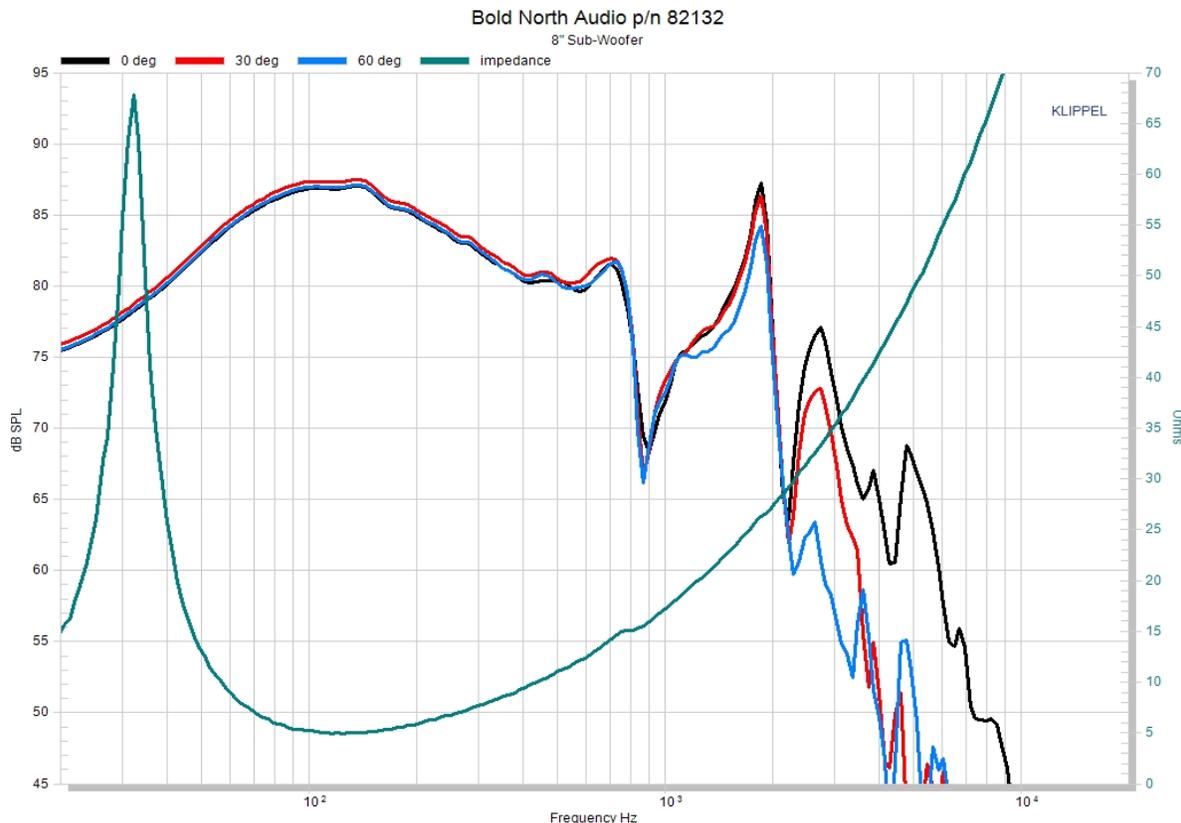
Size, Nominal (inch & mm)	8" (203 mm)
Nominal Impedance (Z) ( $\Omega$ )	4
Rated Power IEC268-5 (W)	75
Sensitivity (dB SPL) (@1W/1 m)	87
Frequency range (Hz)	25 – 1000
Resonant Frequency (Fs) (Hz)	33

### Product Description

This 8" woofer/subwoofer creates clear and natural low-end sound for your home audio system, including bookshelf two-way systems or high-end home theaters. With an EBP of 94, this woofer is ideal for ported systems. This unit is driven by a heavy-duty dual ferrite magnet and an overhung 4-layer coil. The cone is a Klippel optimized Abacá fiber cone with rubber surround. The stamped steel basket has additional depth below the spider for extra mechanical travel. Double lug, quick connect terminals for series or parallel wiring.

### Sensitivity & Impedance Curves

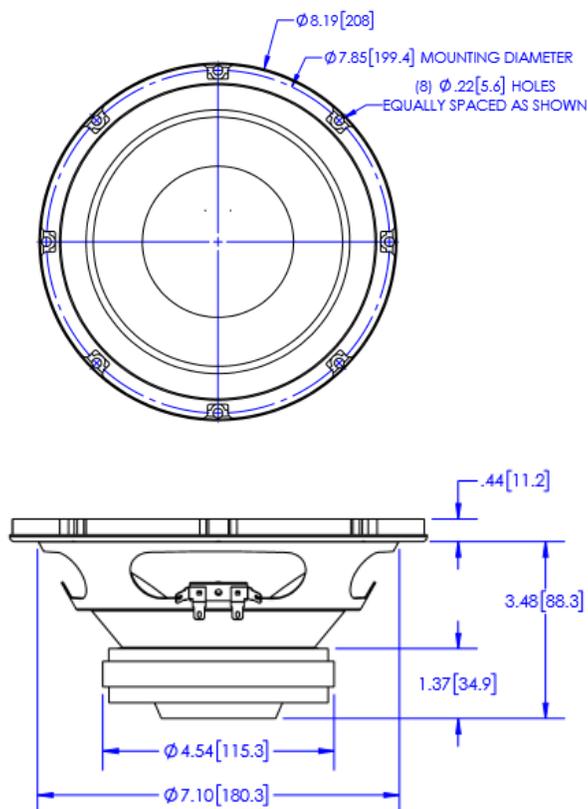
Input: 2.83 volts measured at 1 Meter





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### Transducer Drawing



\*CAD file available upon request  
\*Drawing shown with gasket (included with speaker, but not attached).

### Transducer Specifications (Klippel LPM)

Nominal Impedance (ohms)	4
DC Resistance (Re) (ohms)	3.9
Resonant Frequency (Fs) (Hz)	33
Voice Coil Inductance (Le) (mH)	1.25
Mechanical Q factor (Qms)	5.7
Electrical Q factor (Qes)	0.35
Total Q factor (Qts)	0.32
Moving Mass (Mms) (g)	65.0
without air load (Mmd) (g)	61.5
Suspension Compliance (Cms) (mm/N)	0.34
Mechanical Resistance (Rms) (kg/s)	2.30
Effective Piston Area (Sd) (cm <sup>2</sup> )	227.0
Suspension Equivalent Volume (Vas) (liters)	25.0
Force Factor (Bl) (T*m)	12.5
Efficiency (No) (%)	0.26
SPL (dB 1W/Z)	86.3
SPL (dB 1W/Re)	86.5
EBP (Fs/Qes)	94.2
Motive Force (Bl <sup>2</sup> /Re)	40.0

### Transducer Specifications (Klippel LSI)

X <sub>Bl</sub> @ Bl <sub>min</sub> =82%	7.81	mm	Displacement limit due to force factor variation
X <sub>c</sub> @ C <sub>min</sub> =75%	6.70	mm	Displacement limit due to compliance variation
X <sub>L</sub> @ Z <sub>max</sub> =10%	1.77	mm	Displacement limit due to inductance variation
X <sub>d</sub> @ d <sub>2</sub> =10%	40.00	mm	Displacement limit due Doppler IM distortion

### About Bold North Audio

Bold North Audio products are the most accurate, engineered audio transducers available. Each design requires Klippel vibrational test analyses to verify the key parts of optimal audio performance. While we rely heavily on objective science to lead us, we understand that most of all speakers need to tell the musical truth. Our engineers, musicians, and recording studio veterans are the final judges of when a design is worthy of the Bold North Audio brand.

**All Bold North Audio products are assembled in Minnesota, with parts sourced from around the world to produce the highest combination of performance, consistency, and customer value.**

