

lo15

Key Features

- Designed Specifically For Open Baffle and Dipole Applications
- Underhung Motor Offers Extreme BL Linearity
- Full Copper Sleeve on Pole For Incredibly Low Distortion and Inductance
- Non-Reactive Load Ideal For Use With Tube Amplifiers

Description

The LO woofers were designed specifically for open baffle/dipole use. To compensate for the large rolloff in open baffle applications, drivers are often required to operate at very high excursions. BL and Le linearity are very critical in this type of application. To achieve this linearity, the LO woofers were designed with a large underhung motor and full copper sleeve covering the entire pole. This combination provides the most possible linearity and low distortion during high excursion use. The high Q and low Fs allow the LO woofers to be very efficient at low frequencies while having a very extended response.

The LO woofers are similar to the Dipole series but with higher efficiency and more extended upper end response. The trade off for this additional efficiency is less Xmax, so low end output will be slightly more limited than with the Dipole series. They are a great option for open baffle speakers when priority is given to efficiency and midrange rather than low end extension.

The LO woofers have extremely low and linear inductance. Power requirements are very also very low to push them to high excursions. The low power requirements and non-reactive load make the LO woofers ideal for use with tube amplifiers. They also have some of the best midrange performance of any AE woofers, extending to nearly 4KHz on axis. The LO woofers are available in dual 8ohm or dual 16ohm impedance allowing for a variety of wiring options.

Thiele Small Parameters and General Specifications

LO15-D8 (parallel) LO15-D16 (parallel)

Fs: 33.8Hz	Fs: 33.8Hz
Qms: 19.4	Qms: 19.4
Vas: 311 L	Vas: 311 L
Cms: 0.3 mm/N	Cms: 0.3 mm/N
Mms: 74 g	Mms: 74 g
Rms: .81 kg/S	Rms: .81 kg/S
Xmax: 9 mm(peak)	Xmax: 9 mm(peak)
Xmech: 12 mm(peak)	Xmech: 12 mm(peak)
Sd: 855 sqcm	Sd: 855 sqcm
Vd: 1.58L (p-p)	Vd: 1.58L (p-p)
Qes: 0.86	Qes: 0.86
Re: 3.1 ohm	Re: 6.2 ohm
Le: 0.04 mH	Le: 0.1 mH
Z: 4 ohms	Z: 8 ohms
Bl: 7.5 T/m	Bl: 10.64 T/m
Pe: 100W (cont.)	Pe: 100W (cont.)
Qts: 0.82	Qts: 0.82
1WSPL: 93.44 dB	1WSPL: 93.44 dB
2.83V: 97.55 dB	2.83V: 94.54 dB

Voice Coil Diameter: 51mm (2in)
Coil Length: 12mm
Gap Height: 29mm
Voice Coil Wire: 4 layer Round Copper
Former: Kapton
Spider: Linear - Soft Nomex
Cone: Curvilinear Paper
Surround: Cloth Accordion
Frame: Cast Aluminum 12 Spoke
Magnet: Ceramic 5
Shorting Ring: Copper Sleeve on Pole
Phase Plug: Black or Clear Anodize
Frequency Range: 25Hz-4000hz
Weight: 12.8kg (28lbs)

