

## Specification

Nominal Basket Diameter	12", 304.8mm
Nominal Impedance*	8 ohms
Power Rating**	150W
Resonance	49Hz
Usable Frequency Range***	51Hz-4.3kHz
Sensitivity	95.6
Magnet Weight	20 oz.
Gap Height	0.25", 6.35mm
Voice Coil Diameter	1.5", 38.1mm

## Thiele & Small Parameters

Resonant Frequency (fs)	49Hz
DC Resistance (Re)	6.3
Coil Inductance (Le)	0.79mH
Mechanical Q (Qms)	6.53
Electromagnetic Q (Qes)	0.88
Total Q (Qts)	0.77
Compliance Equivalent Volume (Vas)	121.5 liters / 4.3 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	125cc
Mechanical Compliance of Suspension (Cms)	0.32mm/N
BL Product (BL)	8.5 T-M
Diaphragm Mass inc. Airload (Mms)	33 grams
Efficiency Bandwidth Product (EBP)	56
Maximum Linear Excursion (Xmax)	2.4mm
Surface Area of Cone (Sd)	519.5 cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	6.6mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	17-22.7 liters/0.6-0.8 cu.ft.
Vented	56.6-113.3 liters/2-4 cu.ft.
Overall Diameter	12.26", 311.4mm
Baffle Hole Diameter	11", 279.5mm
Front Sealing Gasket	fitted as standard
Rear Sealing Gasket	fitted as standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	11.71", 297.5mm
Depth	4.73", 120mm
Net Weight	5.3 lbs., 2.4 kg
Shipping Weight	7.4 lbs., 3.4 kg

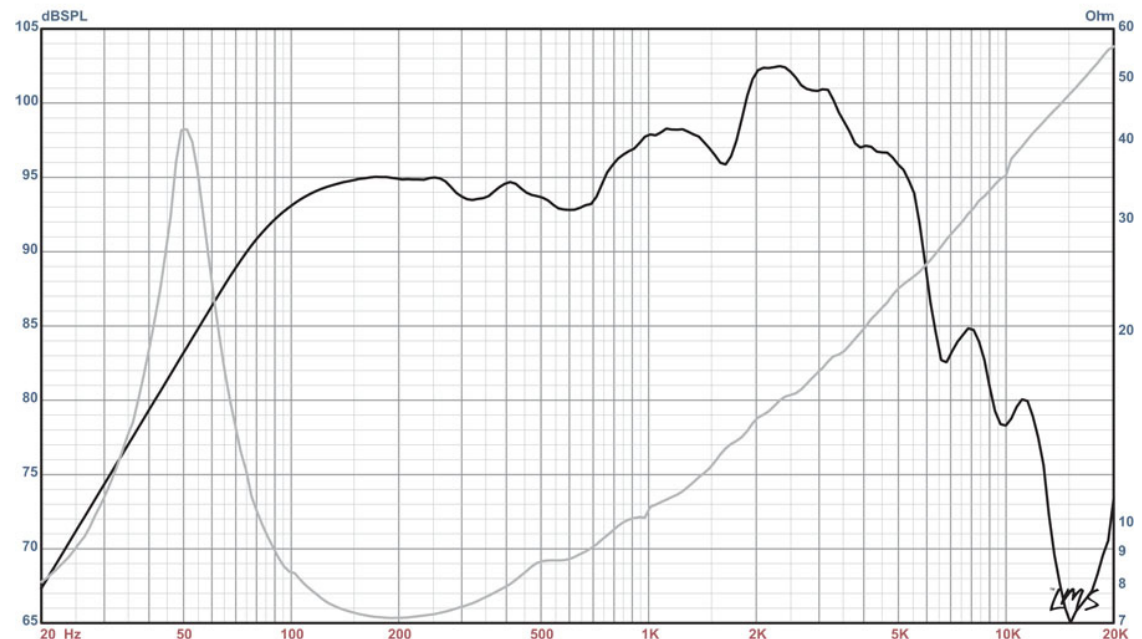
## Materials of Construction

Copper voice coil  
Polyimide former  
Ferrite magnet  
Vented and extended core  
Pressed steel basket  
Paper Cone  
Cloth cone edge  
Solid composition felt dust cap



## ALPHA-12A American Standard Series

Recommended for professional audio mid-bass applications in a small sealed or medium vented enclosure.



\* Please inquire about alternative impedances.

\*\* Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, non-temperature controlled environment.

\*\*\* The average output across the usable frequency range when applying 1W/1M into the nominal impedance. ie: 2.83V/8ohms, 4V/16ohms.

Eminence response curves are measured under the following conditions: All speakers are tested at 1w/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2ft. X 2ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)