

SPECIFICATION

Nominal Basket Diameter	10.00", 254.00mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	400W
Music Program	800W
Resonance	61.38Hz
Usable Frequency Range***	40.00Hz-4.00kHz
Sensitivity	99.90
Magnet Weight	11.40 oz.
Gap Height	0.36", 9.27mm
Voice Coil Diameter	3.00", 76.20mm

THIELE & SMALL PARAMETERS

Resonant Frequency (fs)	61.38Hz
DC Resistance (Re)	5.46
Coil Inductance (Le)	0.57mH
Mechanical Q (Qms)	9.93
Electromagnetic Q (Qes)	0.27
Total Q (Qts)	0.26
Compliance Equivalent Volume (Vas)	37.21 liters / 1.31 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	162.18cc
Mechanical Compliance of Suspension (Cms)	0.20mm/N
BL Product (BL)	16.27 T-M
Diaphragm Mass inc. Airlod (Mms)	33.98 grams
Efficiency Bandwidth Product (EBP)	226.92
Maximum Linear Excursion (Xmax)	4.43mm
Surface Area of Cone (Sd)	366.10 cm ²
Maximum Mechanical Limit (Xlim)	7.50mm

MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	9.91-21.24 liters/0.35-0.75cu.ft.
Vented	15.01-28.32 liters/0.53-1.00 cu.ft.
Driver Volume Displaced	63.55 cu.in.-1.04 liters
Overall Diameter	11.18", 283.97mm
Baffle Hole Diameter	9.12", 231.65mm
Front Sealing Gasket	Fitted as standard
Rear Sealing Gasket	Fitted as standard
Mounting Holes Diameter	0.29", 7.37mm
Mounting Holes B.C.D.	10.49", 266.50mm
Depth	4.61", 117.09mm
Net Weight	7.10 lbs., 3.22 kg
Shipping Weight	7.80 lbs., 7.10 kg

MATERIALS OF CONSTRUCTION

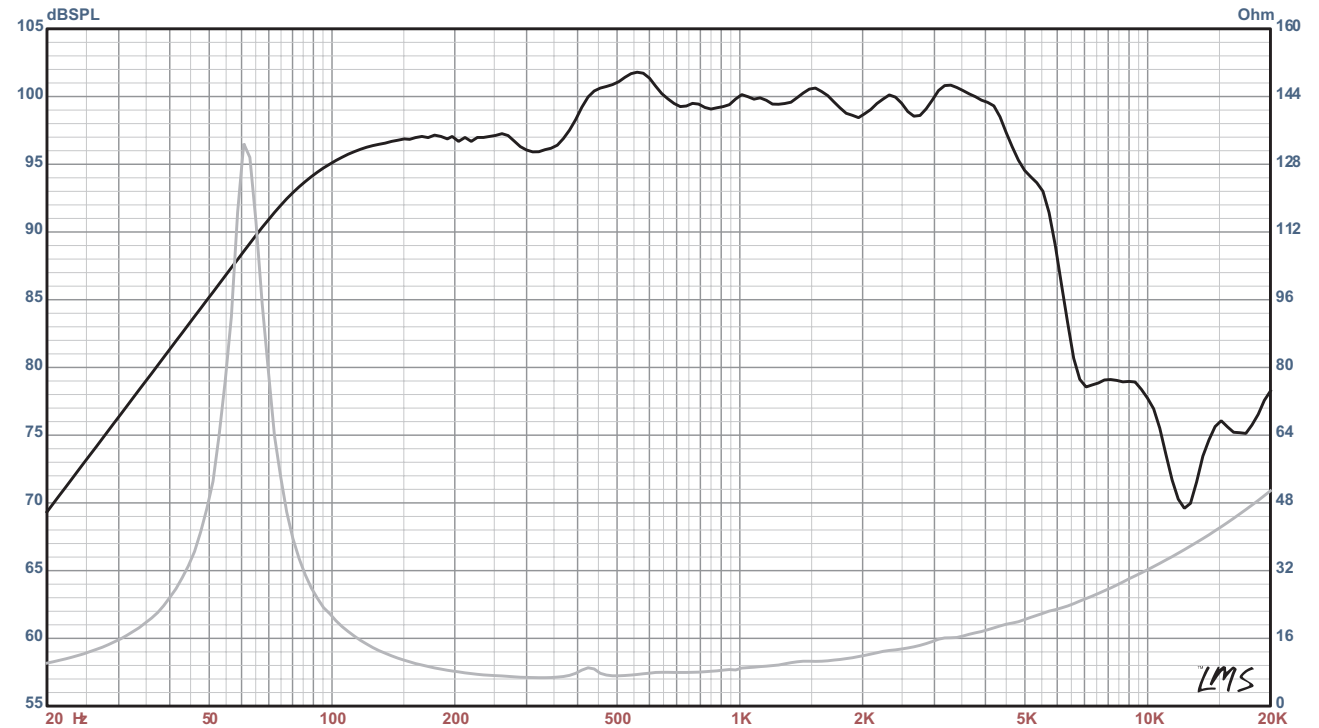
Edge Wound Aluminum voice coil
 Fiberglass
 Neodymium magnet
 Vented Core
 Die-cast aluminum basket
 Treated Paper Cone
 Sealed Cloth Edge
 Treated Paper dust cap




 The Art and Science of Sound

KAPPALITE™ 3010H0 NEODYMIUM SERIES

Lightweight high power high output midrange driver. For use in small sealed and vented enclosures.



* 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)

KappaLite 3010HO Small Sealed Midrange

By Jerry McNutt, Eminence Speaker LLC
Limit to 300 Watts. For use at or above 400 Hz.
High Output Sealed Midrange.



Box Properties

--Description--

Name:
Type: Closed Box
Shape: Prism, square

--Box Parameters--

Vb = 12 liters
V(total) = 12 liters
Qtc = 0.443
QL = 20
F3 = 198 Hz
Fill = heavy

Driver Properties

--Description--

Name: KappaLite 3010HO
Type: Standard one-way driver
Company: Eminence Speaker LLC
Comment: High Power Neo Midrange

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

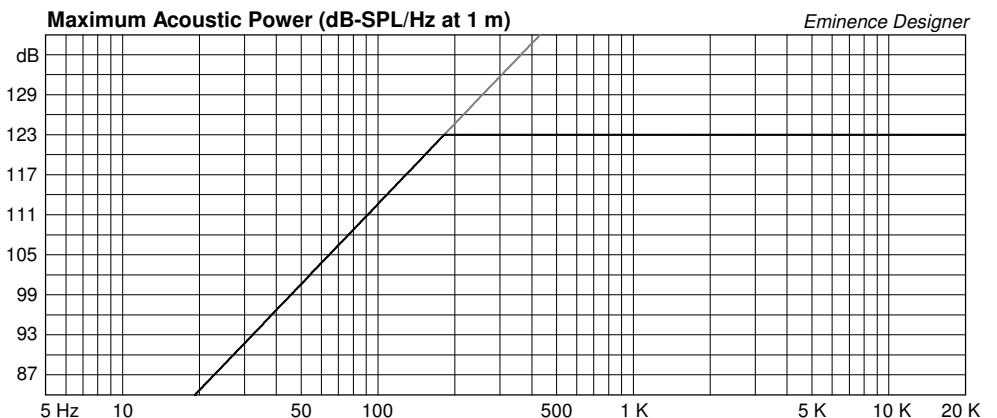
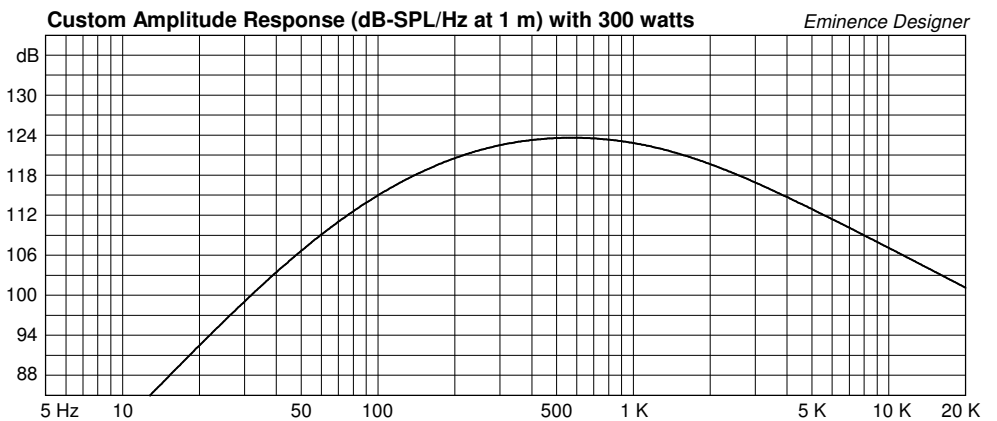
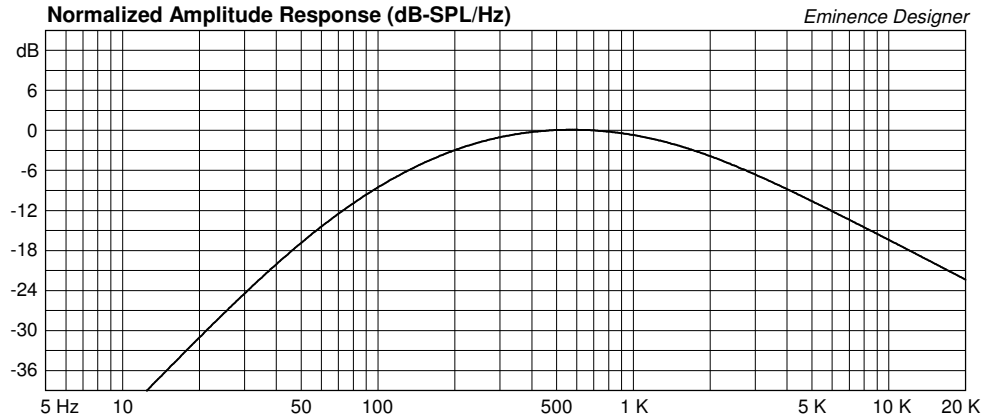
Fs = 61.38 Hz
Qms = 9.93
Vas = 37.21 liters
Cms = 0.2 mm/N
Mms = 33.98 g
Rms = 1.32 kg/s
Xmax = 4.43 mm
Xmech = 7.5 mm
P-Dia = 214.7 mm
Sd = 366.1 sq.cm
P-Vd = 0.16 liters

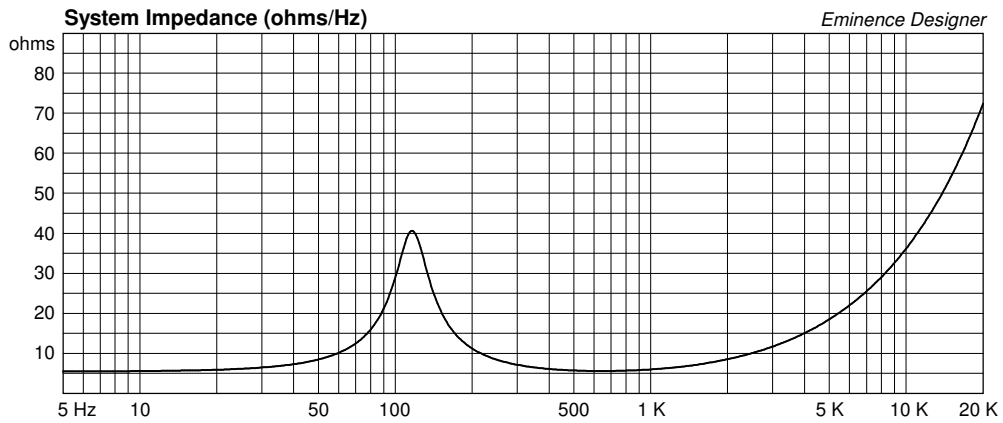
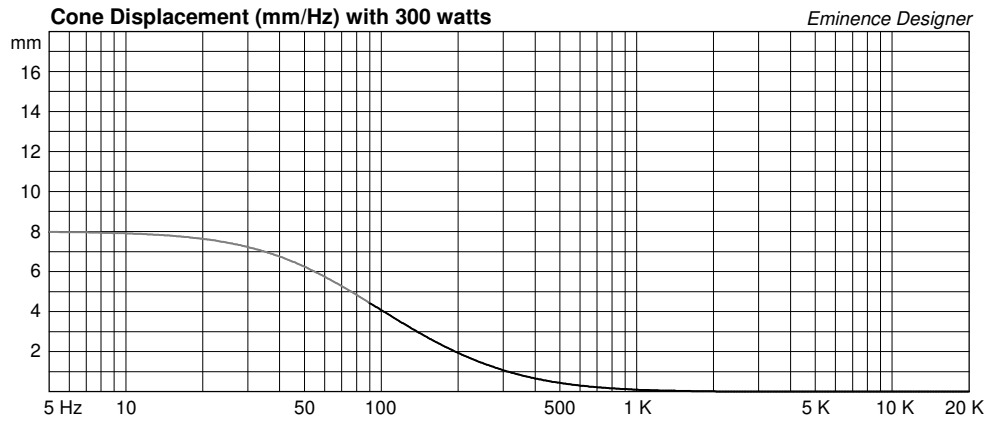
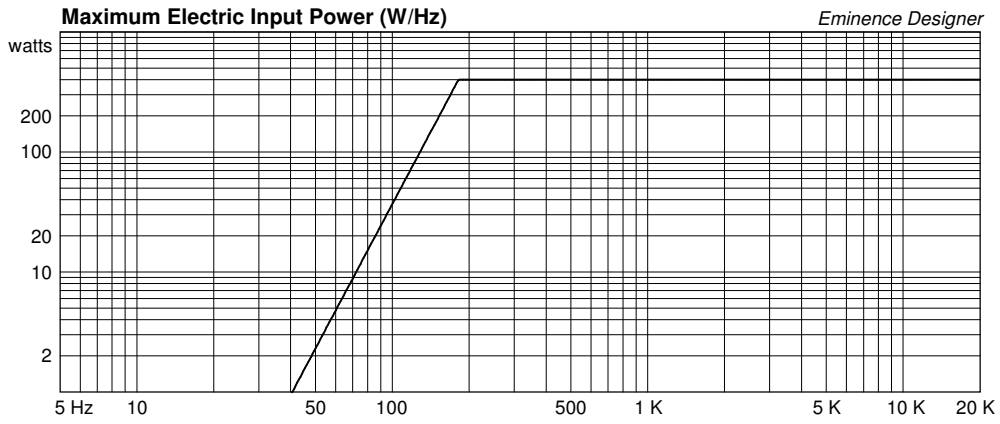
--Electrical Parameters--

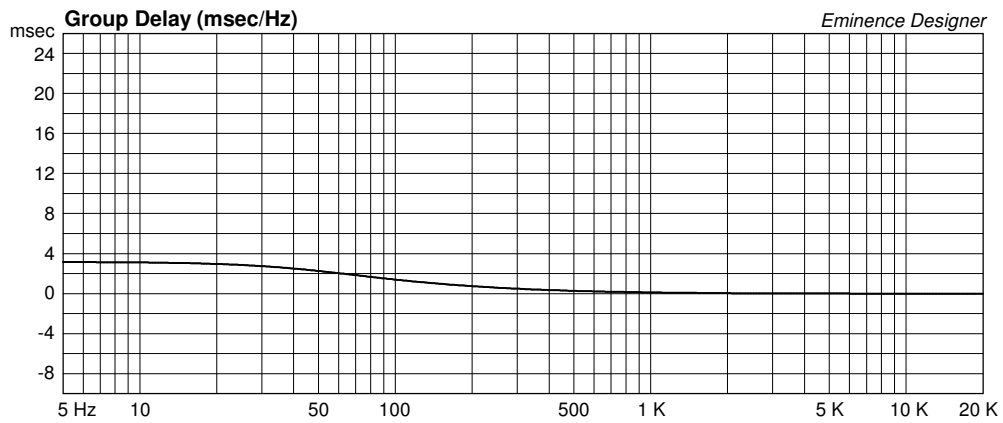
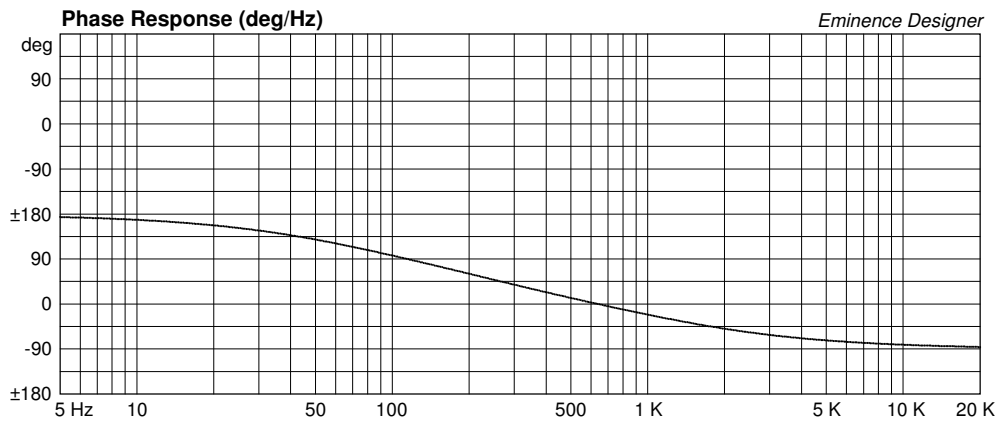
Qes = 0.27
Re = 5.46 ohms
Le = 0.57 mH
Z = 8 ohms
BL = 16.27 Tm
Pe = 400 watts

--Electromech. Parameters--

Qts = 0.263
no = 3.073 %
1-W SPL = 97.02 dB
2.83-V SPL = 98.68 dB







KappaLite 3010HO High Power Vented Midrange

By Jerry McNutt, Eminence Speaker LLC

400 Watts. Use at or above 400 Hz.

Place one port below and one above the driver to promote air flow.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 16 liters

V(total) = 18.35 liters

Fb = 100 Hz

QL = 7

F3 = 107.6 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = two flush

Dv = 2.209 in

Lv = 0.75 in

Driver Properties

--Description--

Name: KappaLite 3010HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Midrange

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 61.38 Hz

Qms = 9.93

Vas = 37.21 liters

Cms = 0.2 mm/N

Mms = 33.98 g

Rms = 1.32 kg/s

Xmax = 4.43 mm

Xmech = 7.5 mm

P-Dia = 214.7 mm

Sd = 366.1 sq.cm

P-Vd = 0.16 liters

--Electrical Parameters--

Qes = 0.27

Re = 5.46 ohms

Le = 0.57 mH

Z = 8 ohms

BL = 16.27 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.263

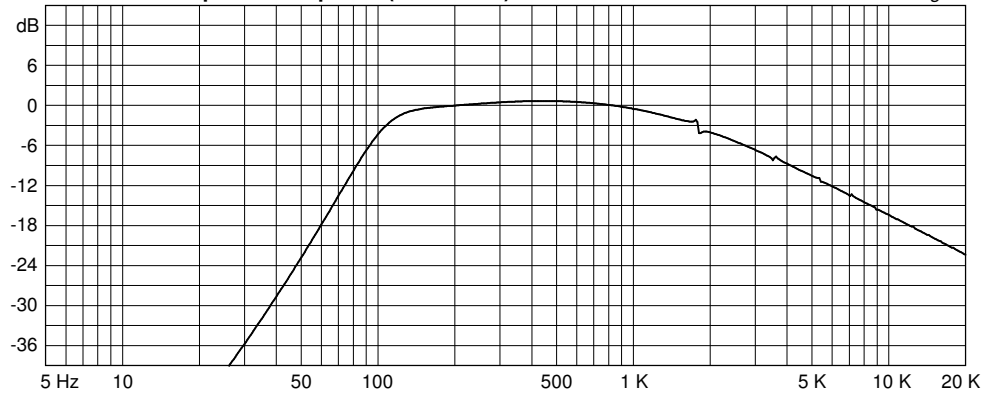
no = 3.073 %

1-W SPL = 97.02 dB

2.83-V SPL = 98.68 dB

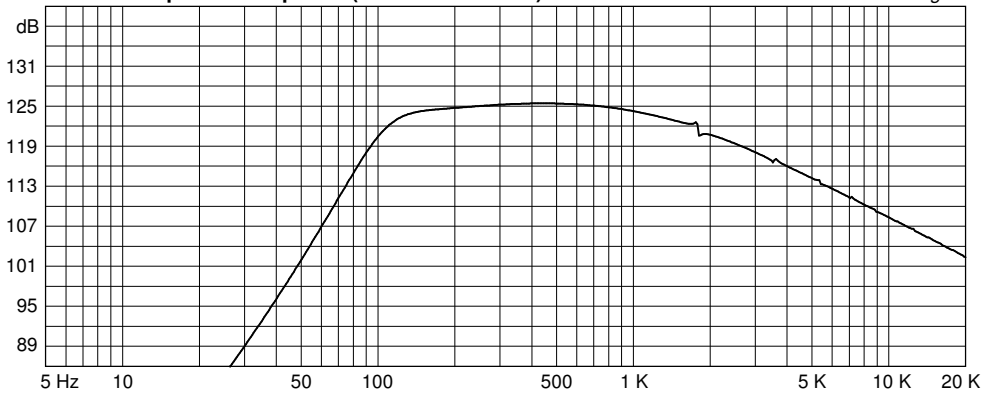
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

Eminence Designer



Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer

