

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	450W
Music Program	900W
Resonance	45Hz
Usable Frequency Range***	40Hz-4kHz
Sensitivity	100.8
Magnet Weight	11 oz
Gap Height	0.365", 9.27mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	45Hz
DC Resistance (Re)	5.27
Coil Inductance (Le)	0.64mH
Mechanical Q (Qms)	6.70
Electromagnetic Q (Qes)	0.36
Total Q (Qts)	0.34
Compliance Equivalent Volume (Vas)	153 ltr/5.4 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	505cc
Mechanical Compliance of Suspension (Cms)	0.15mm/N
BL Product (BL)	18.6 T-M
Diaphragm Mass inc. Airload (Mms)	84 grams
Efficiency Bandwidth Product (EBP)	125
Maximum Linear Excursion (Xmax)	5.9mm
Surface Area of Cone (Sd)	856.0cm ²
Maximum Mechanical Limit (Xlim)	11mm

Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	51-144 ltr/1.8-5.1 cu. ft.
Overall Diameter	15.32", 389.1mm
Baffle Hole Diameter	14.0", 356.4mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7mm
Mounting Holes B.C.D.	14.56", 369.8mm
Depth	6.8", 173mm
Net Weight	7.9 lbs, 3.6 kg
Shipping Weight	10.1 lbs, 4.6 kg

Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Neodymium
Core Details	Vented
Basket Materials	Die-Cast Aluminum/Heatsink
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



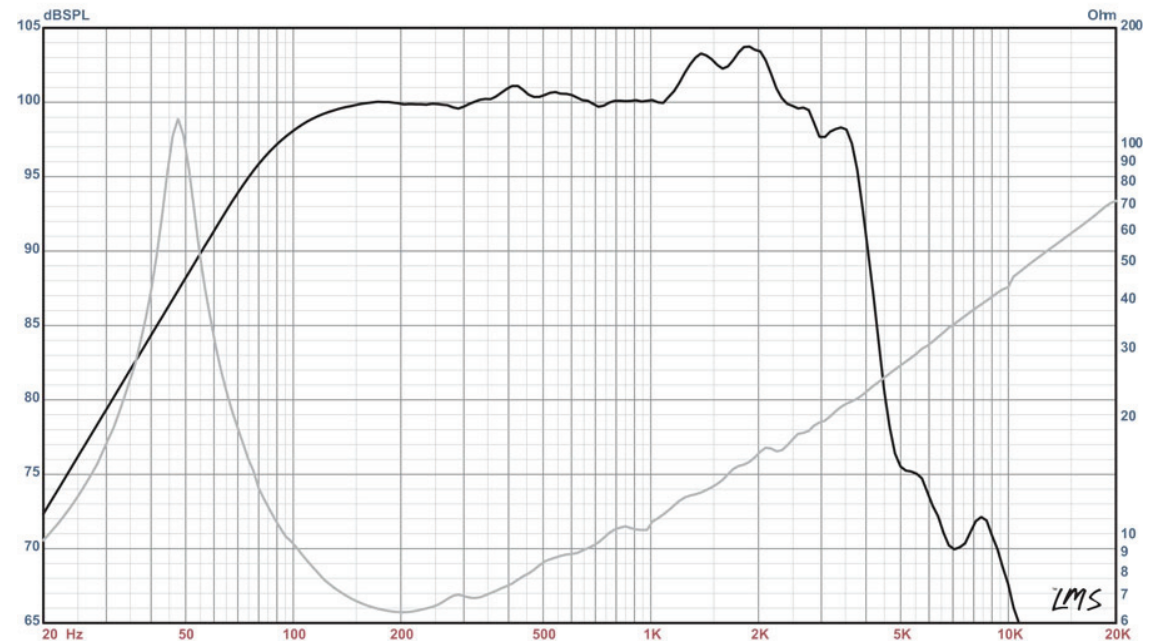


EMINENCE[®]

 The Art and Science of Sound

KAPPALITE™ 3015 Neodymium

Recommended for vented professional audio enclosures for full-range or as mids.



* Please inquire about alternative impedances.

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

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

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 | 2 ft. X 2 ft. 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 3015 Larger Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 300 Watts; F3 of 51 Hz. Use a steep High Pass Filter set to 35 Hz or higher to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.798 cu.ft

V(total) = 5.085 cu.ft

Fb = 42 Hz

QL = 7

F3 = 51.42 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.565 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 45 Hz

Qms = 6.7

Vas = 153 liters

Xmax = 5.9 mm

Sd = 856 sq.cm

Qes = 0.36

Re = 5.27 ohms

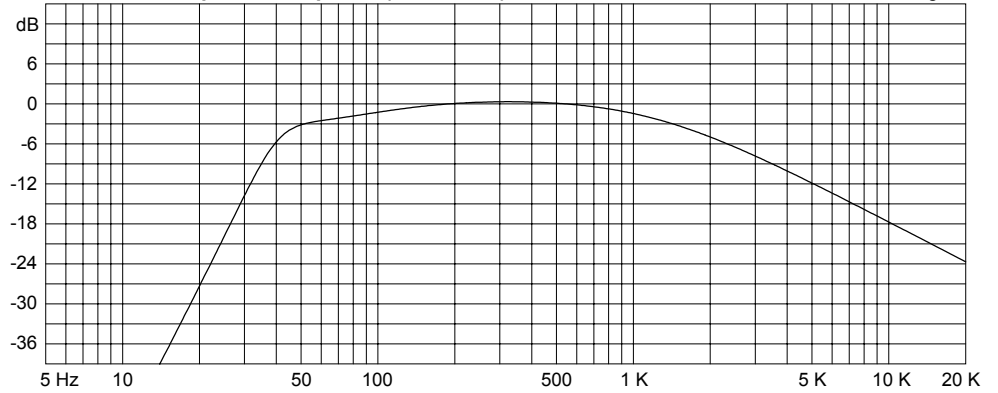
Le = 0.64 mH

Z = 8 ohms

Pe = 500 watts

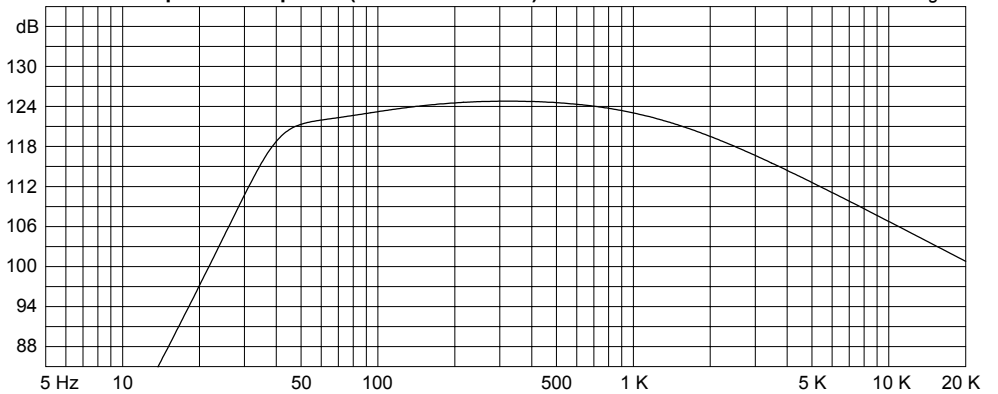
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



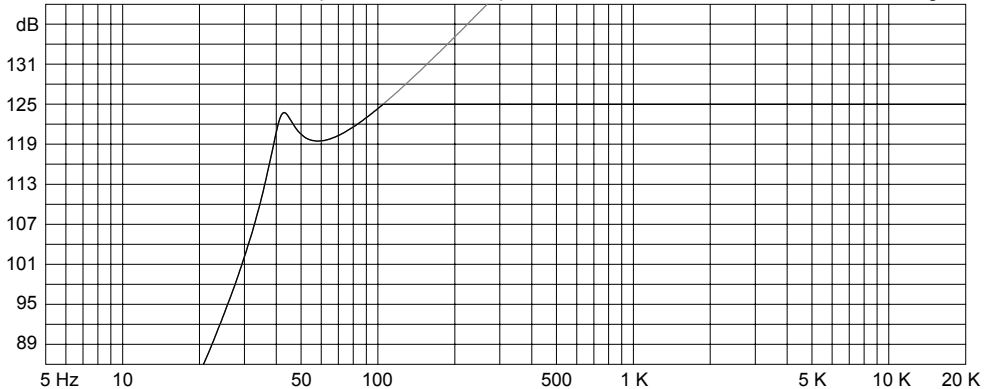
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

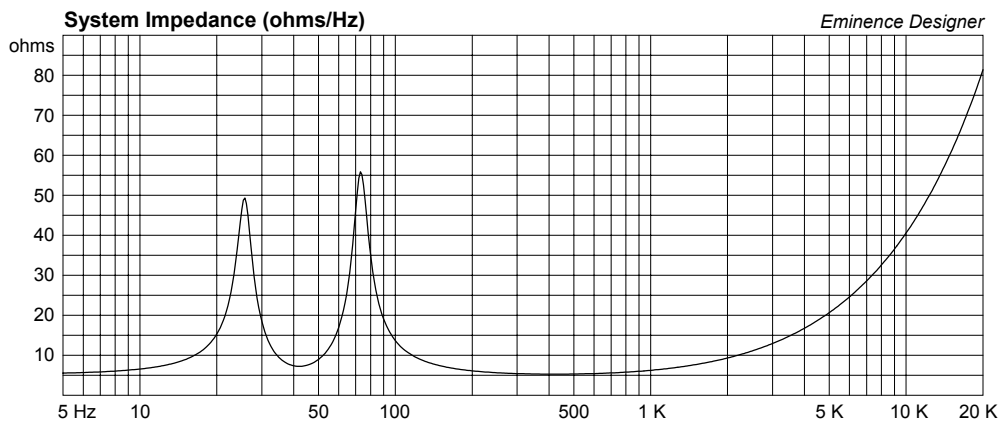
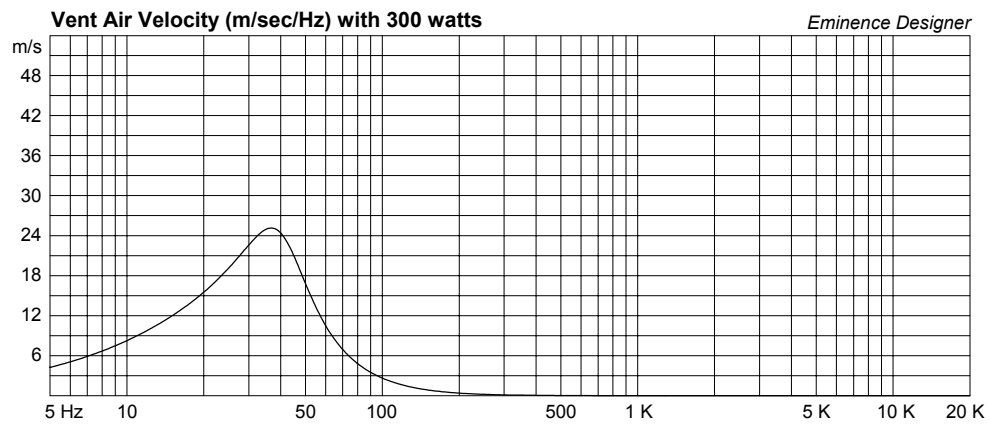
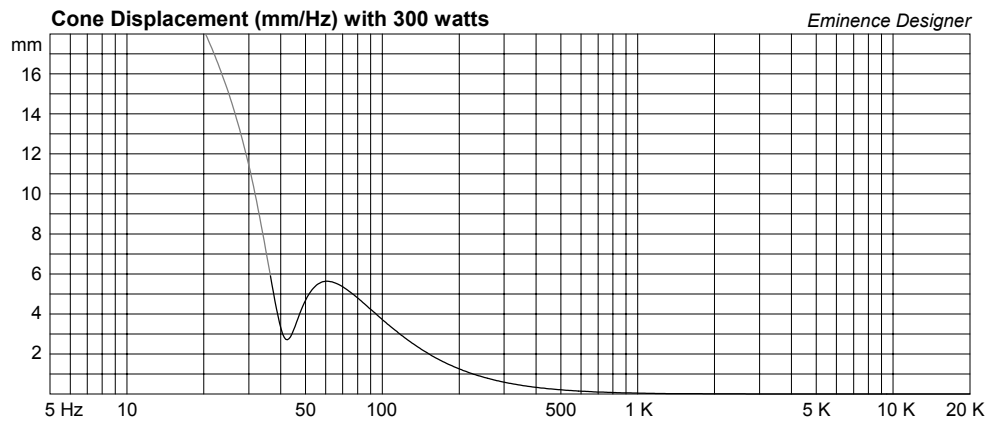
Eminence Designer



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

Eminence Designer





KappaLite 3015 Med Vented Cabinet

By McJerry, Eminence Speaker LLC

Thermally Limited to 450 Watts; F3 of 65 Hz. For Full Range use a High Pass Filter at 40 Hz.

For Hi Pwr Mid/Hi Sat use a High Pass Filter set to 100 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.483 cu.ft

V(total) = 2.825 cu.ft

Fb = 49.42 Hz

QL = 7

F3 = 64.54 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.86 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 45 Hz

Qms = 6.7

Vas = 153 liters

Xmax = 5.9 mm

Sd = 856 sq.cm

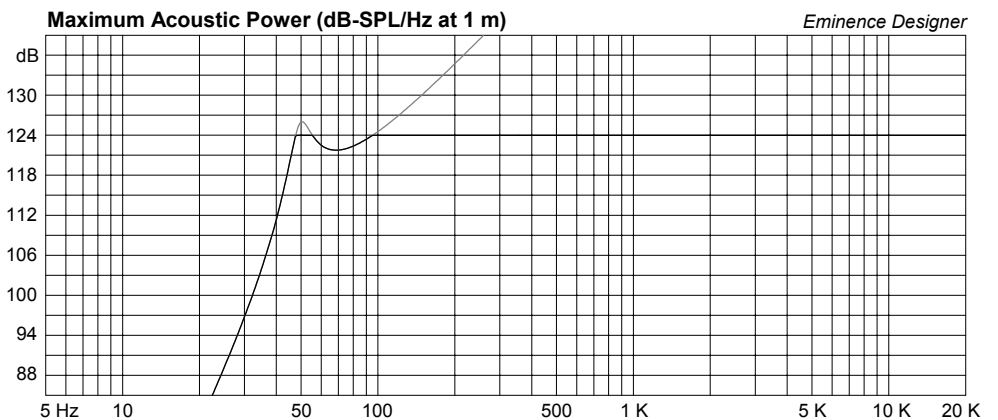
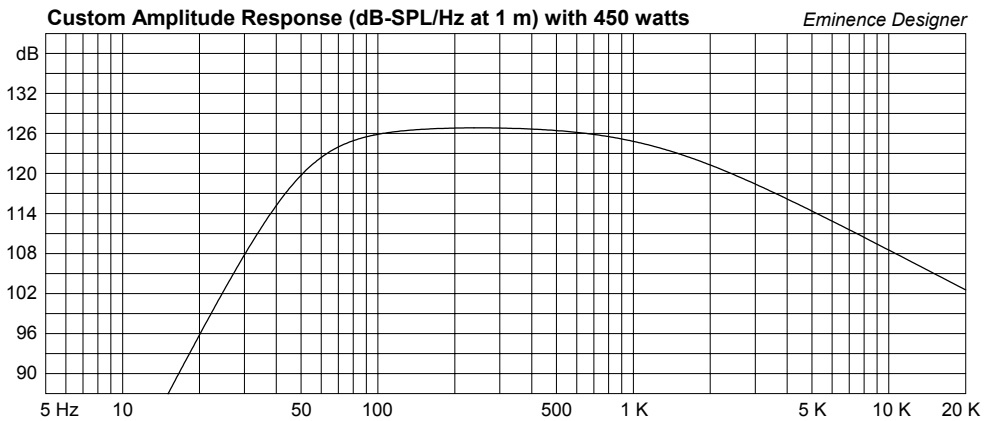
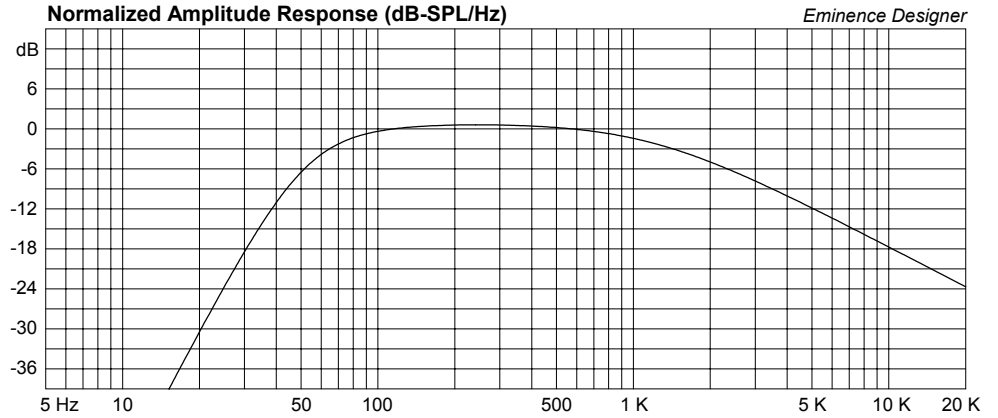
Qes = 0.36

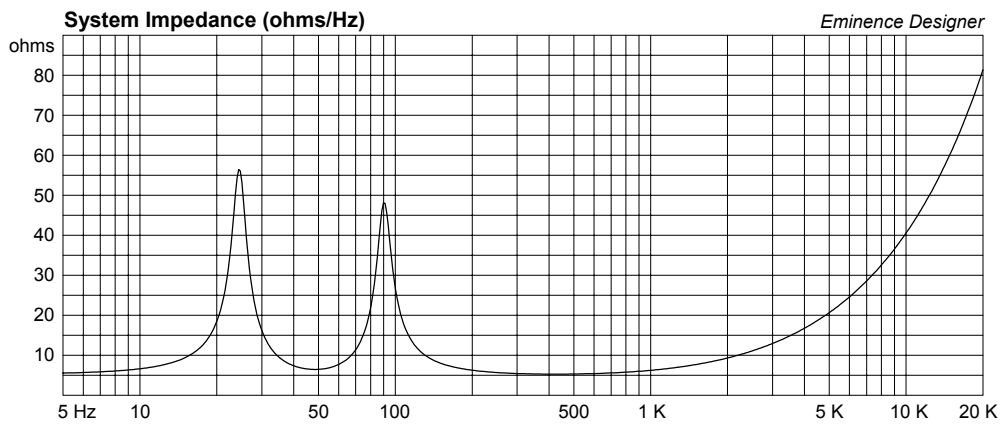
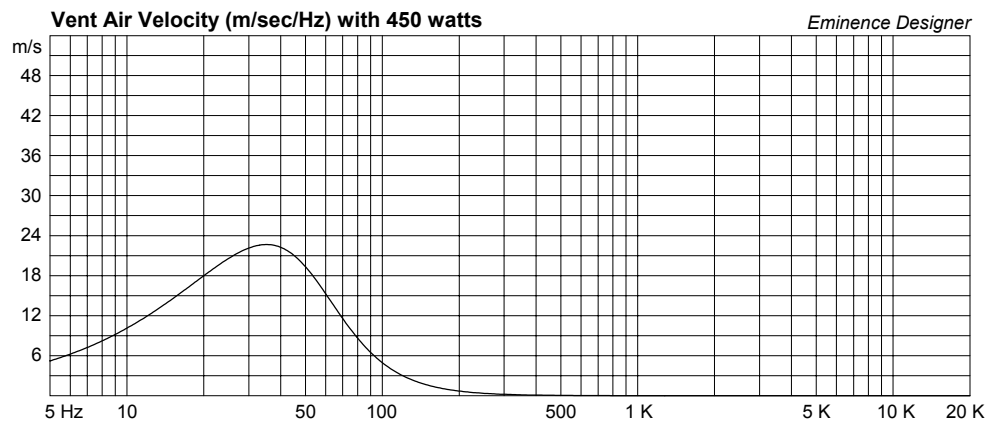
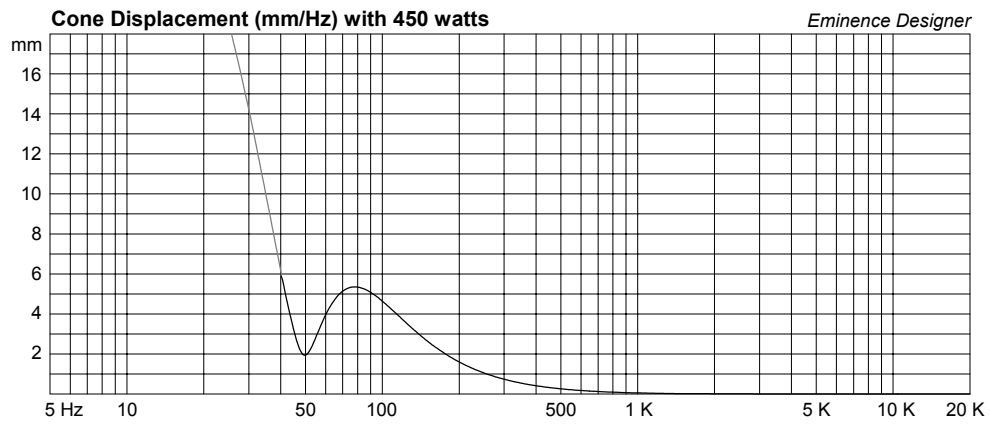
Re = 5.27 ohms

Le = 0.64 mH

Z = 8 ohms

Pe = 450 watts





KappaLite 3015 Small Vented Cab

By McJerry, Eminence Speaker LLC

450 Watt Limit; F3 of 76 Hz. For Semi-FR use a High Pass Filter at 50 Hz.

For Hi Pwr Mid/Hi Sat use a High Pass Filter set to 100 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.5 cu.ft

V(total) = 1.833 cu.ft

Fb = 65 Hz

QL = 7

F3 = 76.05 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.359 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 45 Hz

Qms = 6.7

Vas = 153 liters

Xmax = 5.9 mm

Sd = 856 sq.cm

Qes = 0.36

Re = 5.27 ohms

Le = 0.64 mH

Z = 8 ohms

Pe = 450 watts

