

LA15850 Large Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC
 300 Watts; F3 at 60 Hz. Best used above 85 Hz.
 Great for Vocal Monitors of Mid/High Boxes.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.85 cu.ft

V(total) = 4.042 cu.ft

Fb = 62 Hz

QL = 7

F3 = 59.67 Hz

Fill = minimal

--Vents--

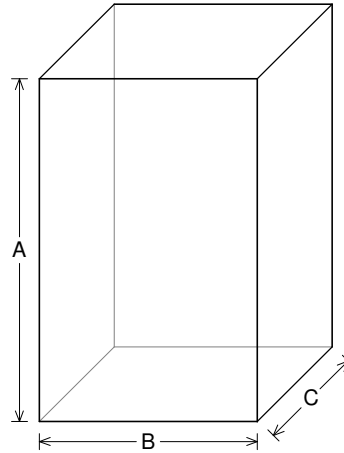
No. of Vents = 3

Vent shape = round

Vent ends = one flush

Dv = 3.438 in

Lv = 0.75 in



--External Dimensions--

A = 32.43 in

B = 20.62 in

C = 13.31 in

--Internal Dimensions--

A = 30.93 in

B = 19.12 in

C = 11.81 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: LA15850

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Shallow 15" Cast Frame Woofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 33.8 Hz

Qms = 9.27

Vas = 234.2 liters

Cms = 0.23 mm/N

Mms = 97.93 g

Rms = 2.24 kg/s

Xmax = 4.1 mm

Xmech = 12.2 mm

P-Dia = 328.3 mm

Sd = 856.3 sq.cm

P-Vd = 0.347 liters

--Electrical Parameters--

Qes = 0.34

Re = 5.83 ohms

Le = 1 mH

Z = 8 ohms

BL = 18.98 Tm

Pe = 800 watts

--Electromech. Parameters--

Qts = 0.33

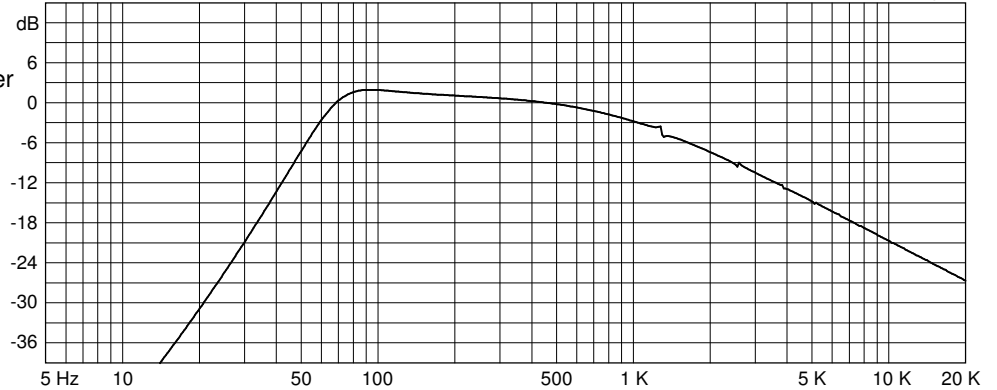
no = 2.564 %

1-W SPL = 96.24 dB

2.83-V SPL = 97.61 dB

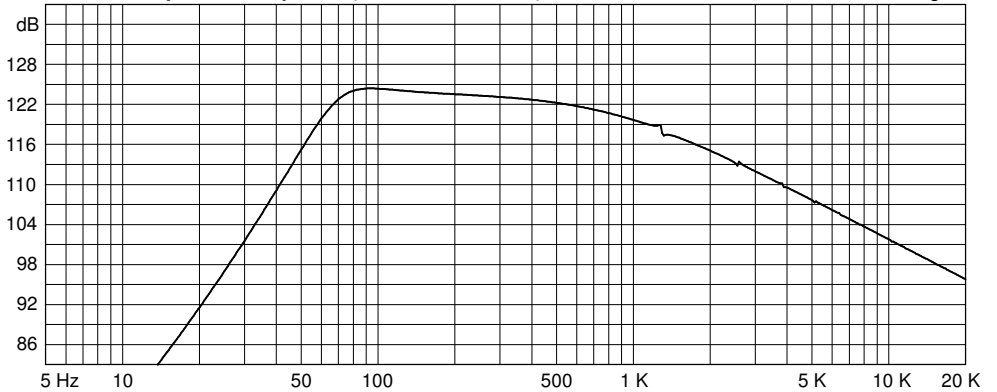
Normalized Amplitude Response (dB-SPL/Hz)

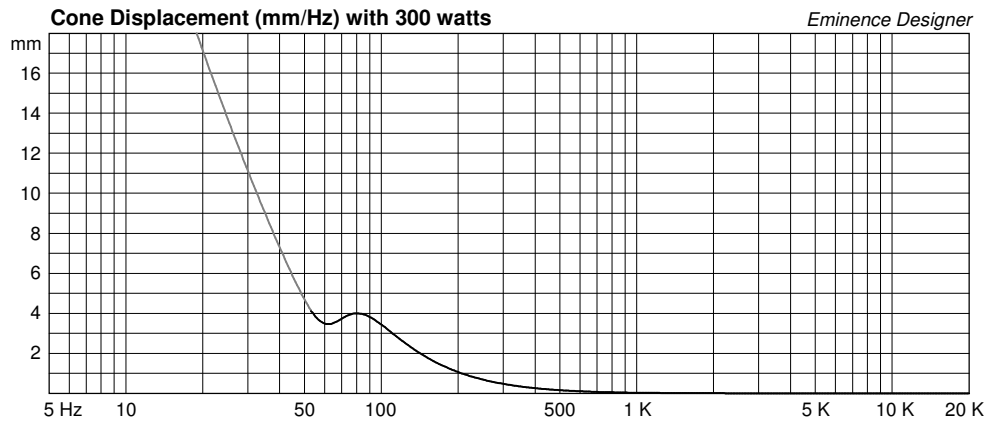
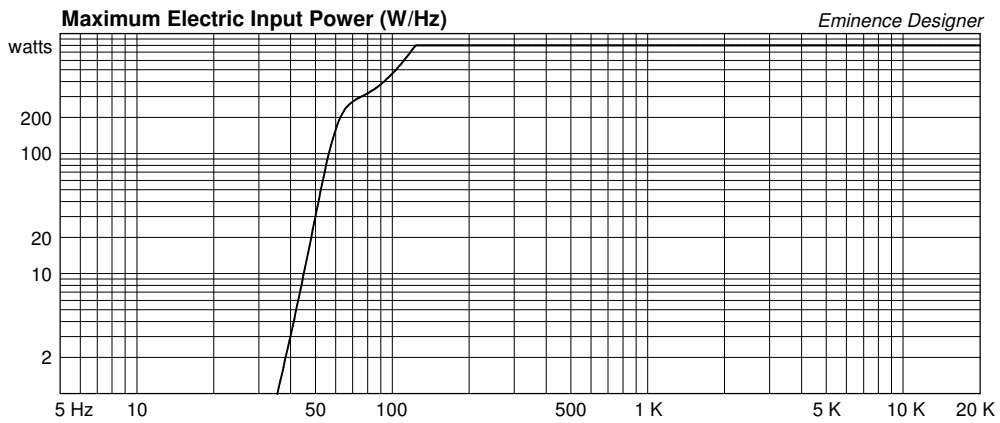
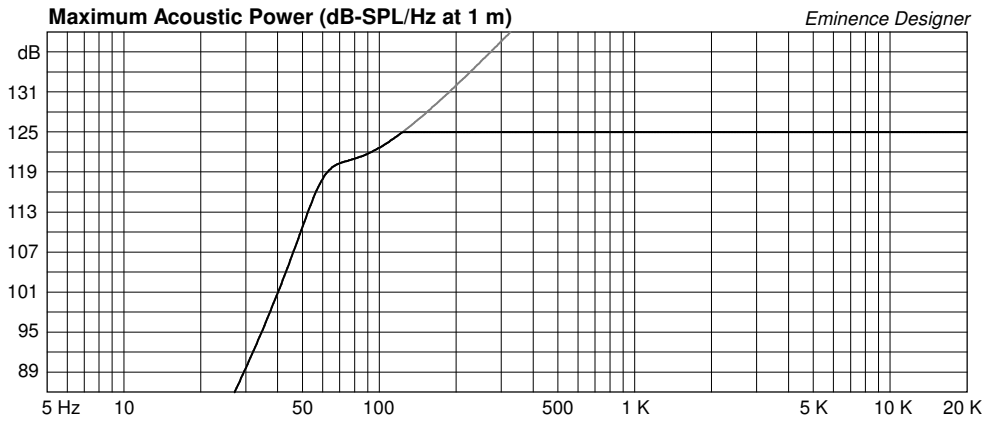
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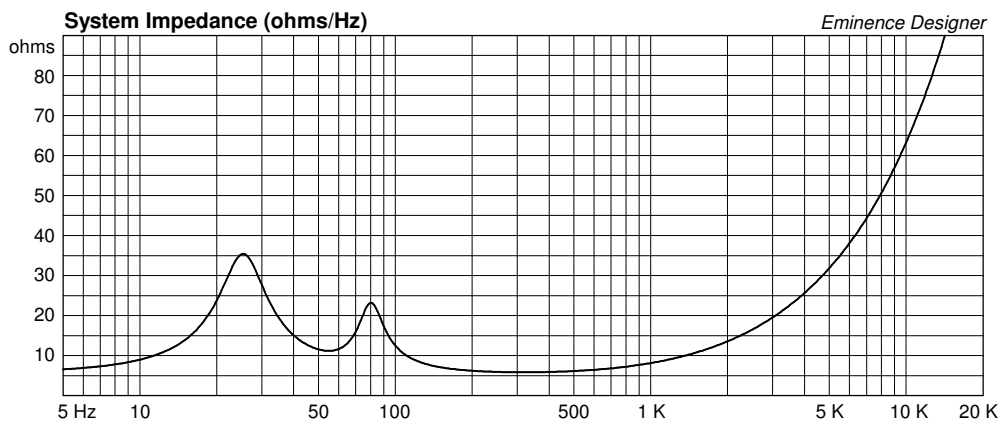
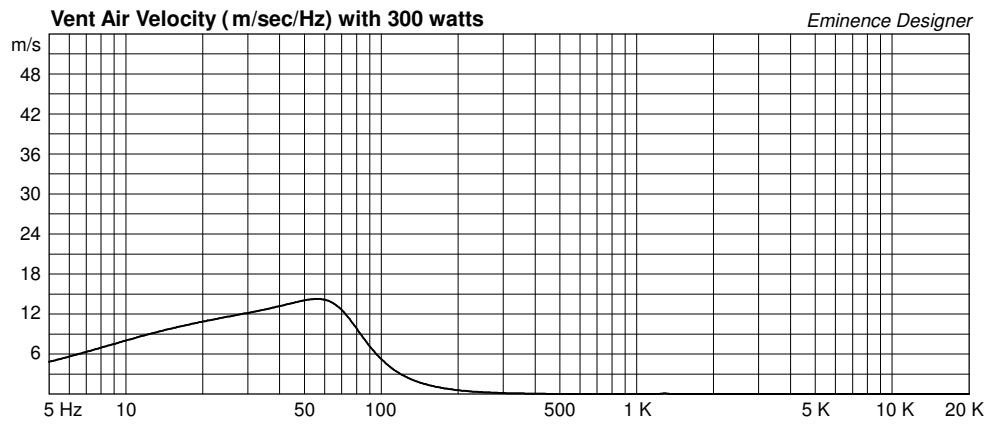


Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

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LA15850 Medium Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC
350 Watts; F3 at 63 Hz. Best used above 100 Hz.
Medium Power Mid/bass box or Satellite Speaker.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.75 cu.ft

V(total) = 2.951 cu.ft

Fb = 65 Hz

QL = 7

F3 = 63 Hz

Fill = minimal

--Vents--

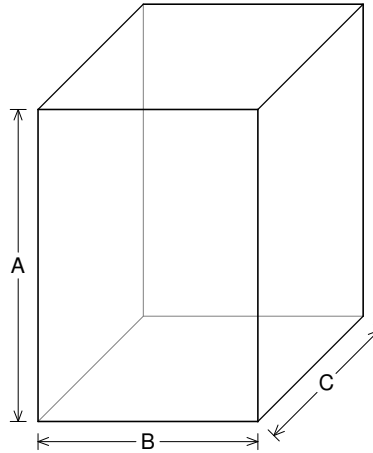
No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 1.306 in



--External Dimensions--

A = 24.5 in

B = 17.25 in

C = 15.58 in

--Internal Dimensions--

A = 23 in

B = 15.75 in

C = 14.08 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: LA15850

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Shallow 15" Cast Frame Woofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 33.8 Hz

Qms = 9.27

Vas = 234.2 liters

Cms = 0.23 mm/N

Mms = 97.93 g

Rms = 2.24 kg/s

Xmax = 4.1 mm

Xmech = 12.2 mm

P-Dia = 328.3 mm

Sd = 856.3 sq.cm

P-Vd = 0.347 liters

--Electrical Parameters--

Qes = 0.34

Re = 5.83 ohms

Le = 1 mH

Z = 8 ohms

BL = 18.98 Tm

Pe = 800 watts

--Electromech. Parameters--

Qts = 0.33

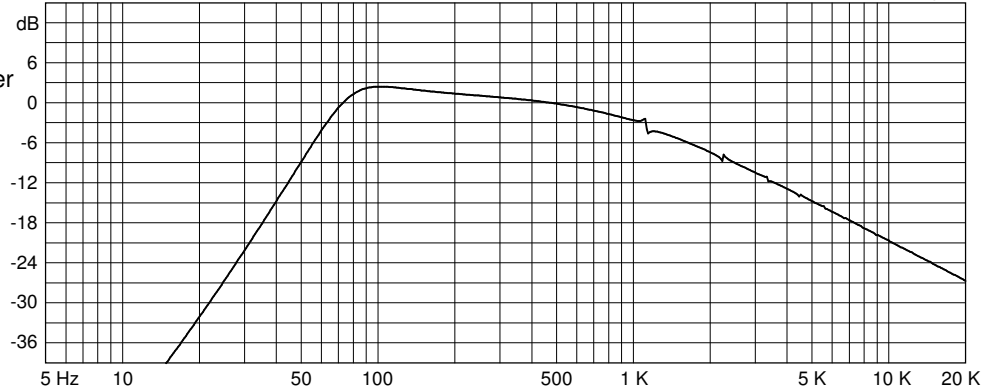
no = 2.564 %

1-W SPL = 96.24 dB

2.83-V SPL = 97.61 dB

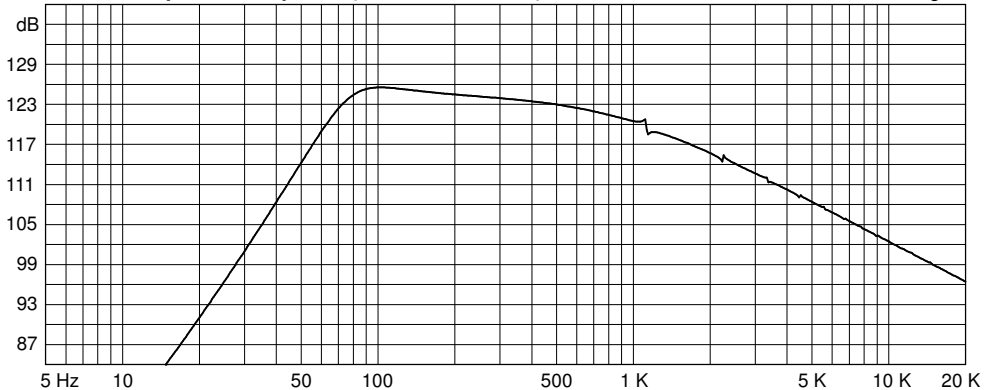
Normalized Amplitude Response (dB-SPL/Hz)

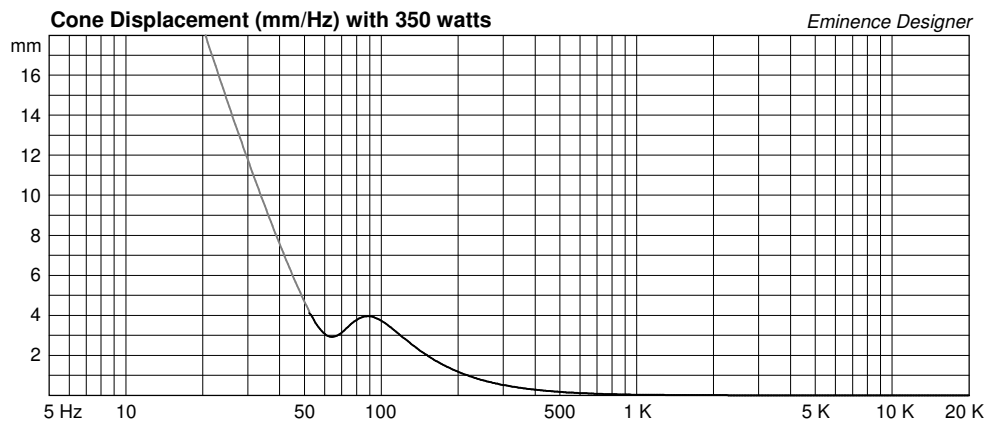
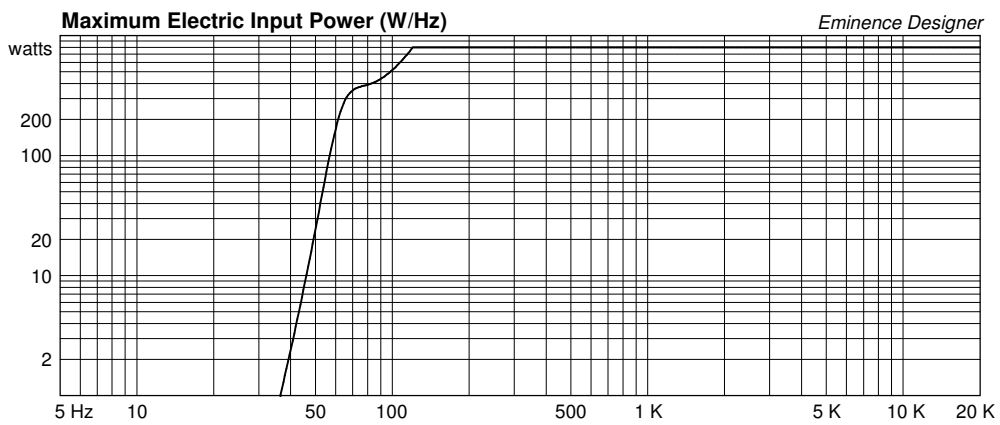
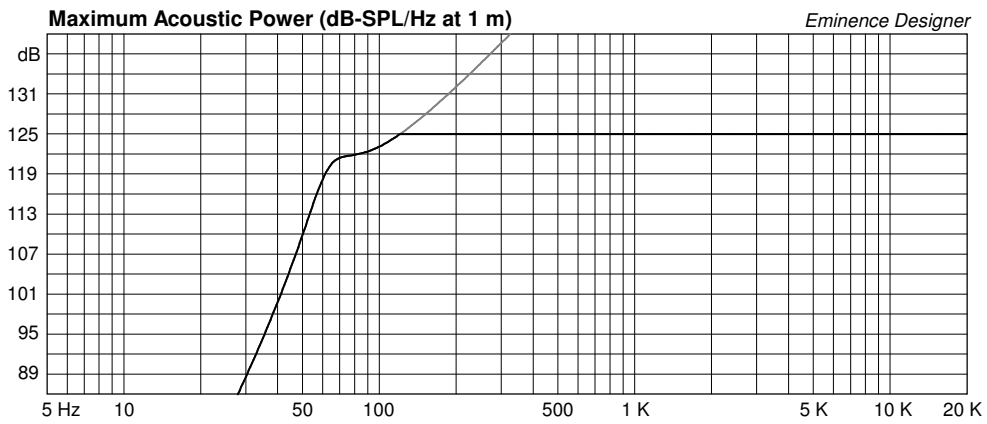
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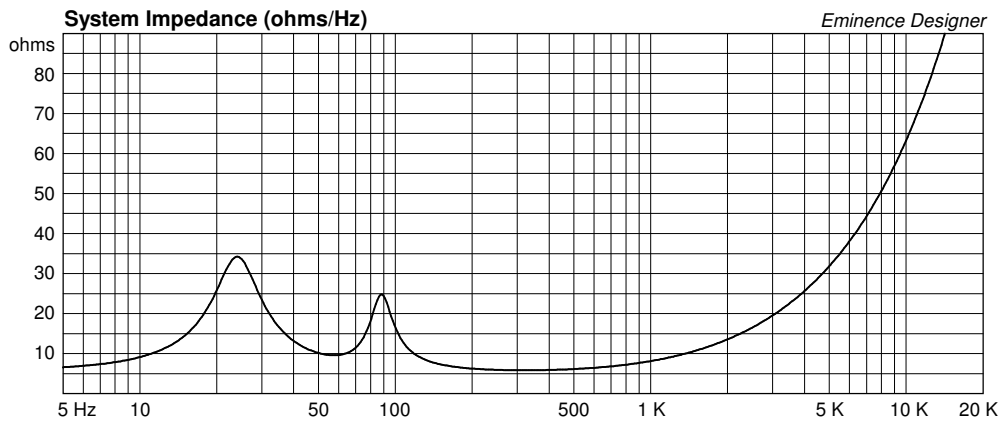
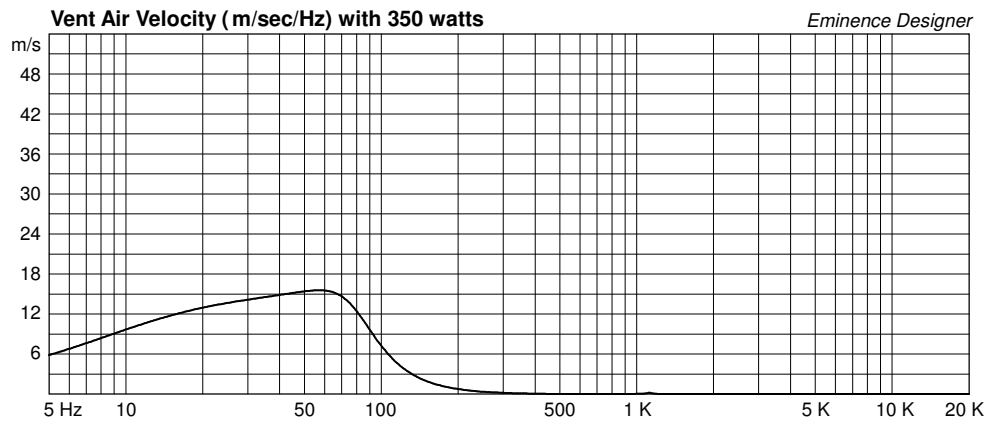


Custom Amplitude Response (dB-SPL/Hz at 1 m) with 350 watts

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LA15850 Small Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC
 475 Watts; F3 at 70 Hz. Best used above 100 Hz.
 High Power, High Output Mid/bass design.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.566 cu.ft

V(total) = 1.766 cu.ft

Fb = 70 Hz

QL = 7

F3 = 70.17 Hz

Fill = minimal

--Vents--

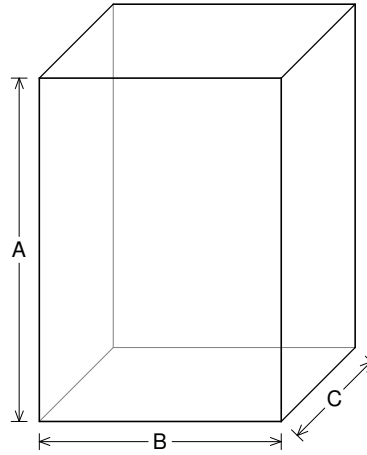
No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 1.596 in



--External Dimensions--

A = 24.5 in

B = 17.25 in

C = 9.926 in

--Internal Dimensions--

A = 23 in

B = 15.75 in

C = 8.426 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: LA15850

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Shallow 15" Cast Frame Woofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 33.8 Hz

Qms = 9.27

Vas = 234.2 liters

Cms = 0.23 mm/N

Mms = 97.93 g

Rms = 2.24 kg/s

Xmax = 4.1 mm

Xmech = 12.2 mm

P-Dia = 328.3 mm

Sd = 856.3 sq.cm

P-Vd = 0.347 liters

--Electrical Parameters--

Qes = 0.34

Re = 5.83 ohms

Le = 1 mH

Z = 8 ohms

BL = 18.98 Tm

Pe = 800 watts

--Electromech. Parameters--

Qts = 0.33

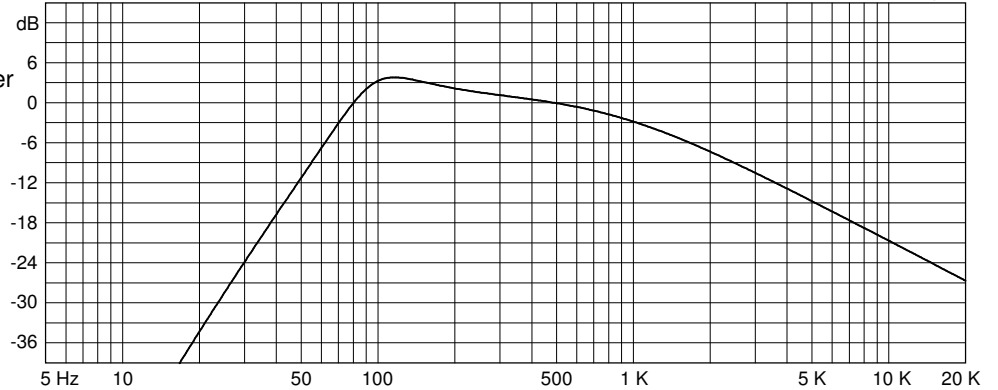
no = 2.564 %

1-W SPL = 96.24 dB

2.83-V SPL = 97.61 dB

Normalized Amplitude Response (dB-SPL/Hz)

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Custom Amplitude Response (dB-SPL/Hz at 1 m) with 475 watts

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