

Alpha 4-4 Large Sealed Midrange

By Jerry McNutt, Eminence Speaker LLC
55 Watts, F3 at 150 Hz. Best used above 220 Hz.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.18 cu.ft

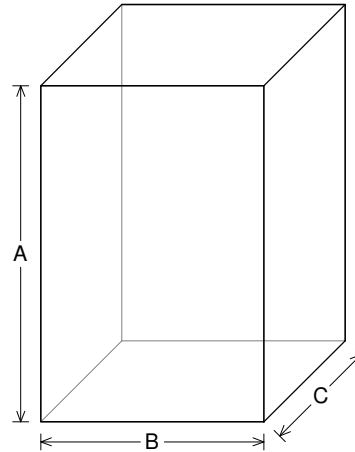
V(total) = 0.186 cu.ft

Qtc = 0.654

QL = 20

F3 = 149.9 Hz

Fill = normal



--External Dimensions--

A = 12.58 in

B = 8.348 in

C = 5.732 in

--Internal Dimensions--

A = 11.08 in

B = 6.848 in

C = 4.232 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Alpha 4-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 4" Four Ohm Midbass/Full range

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 120.4 Hz

Qms = 6.41

Vas = 1.76 liters

Cms = 0.38 mm/N

Mms = 4.59 g

Rms = 0.54 kg/s

Xmax = 2.6 mm

Xmech = 4.5 mm

P-Dia = 85.27 mm

Sd = 57.72 sq.cm

P-Vd = 0.0148 liters

--Electrical Parameters--

Qes = 0.7

Re = 3.42 ohms

Le = 0.18 mH

Z = 4 ohms

BL = 4.12 Tm

Pe = 55 watts

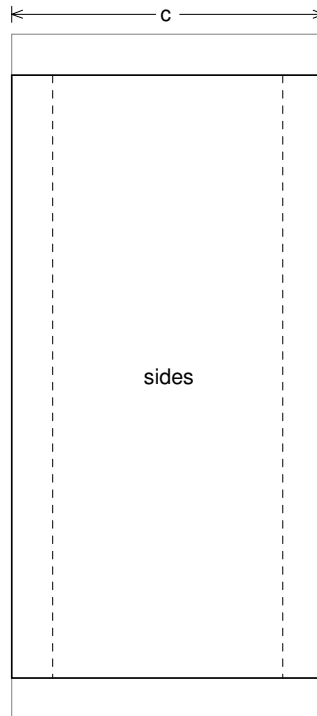
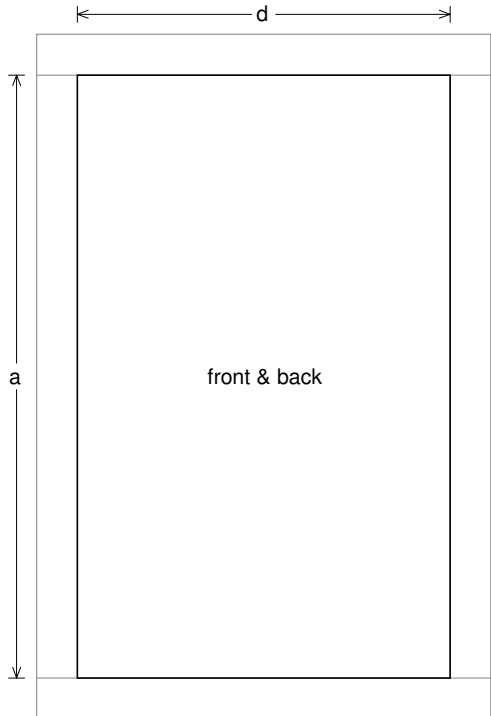
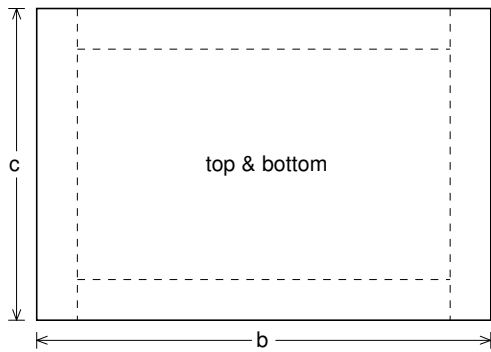
--Electromech. Parameters--

Qts = 0.631

no = 0.423 %

1-W SPL = 88.41 dB

2.83-V SPL = 92.1 dB

**Box Parts**

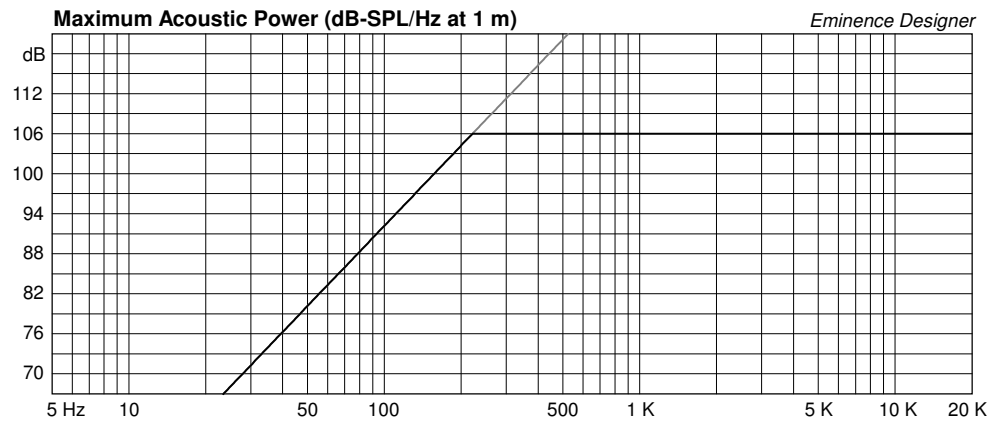
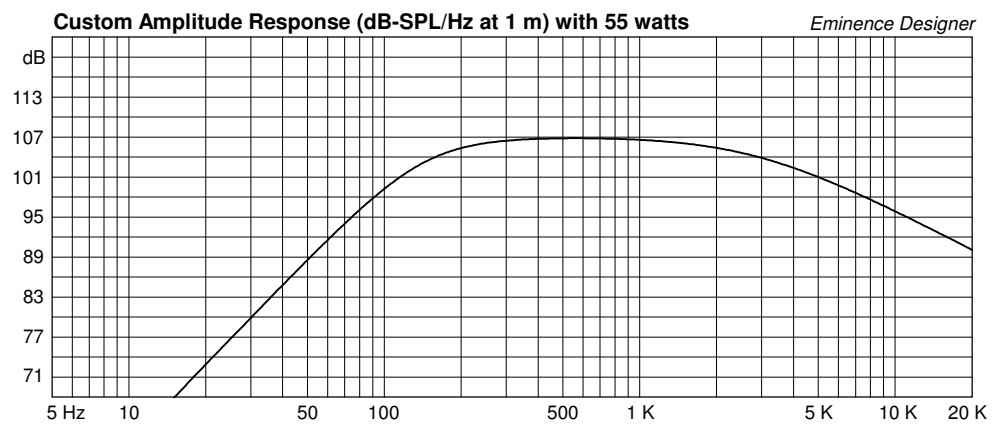
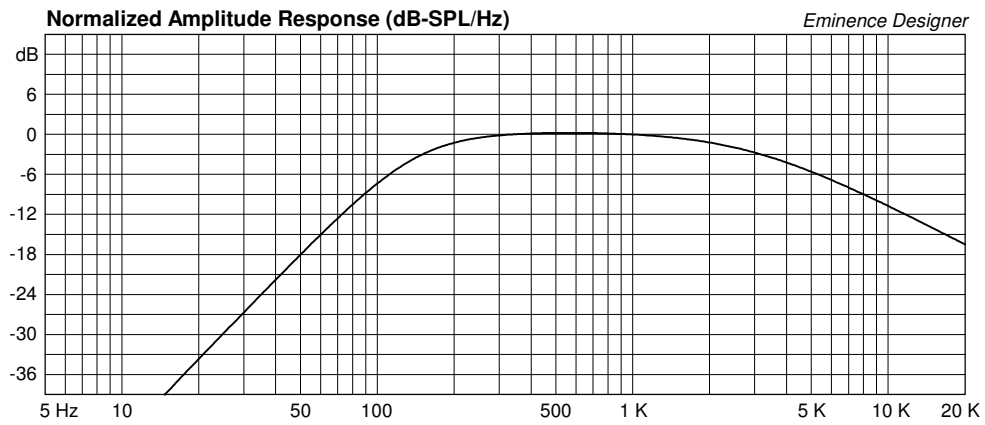
Box Shape: Optimum Square Prism

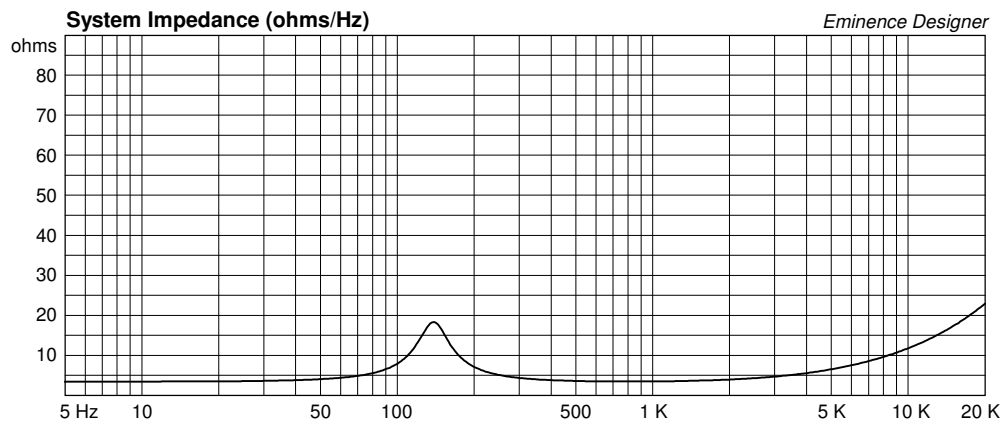
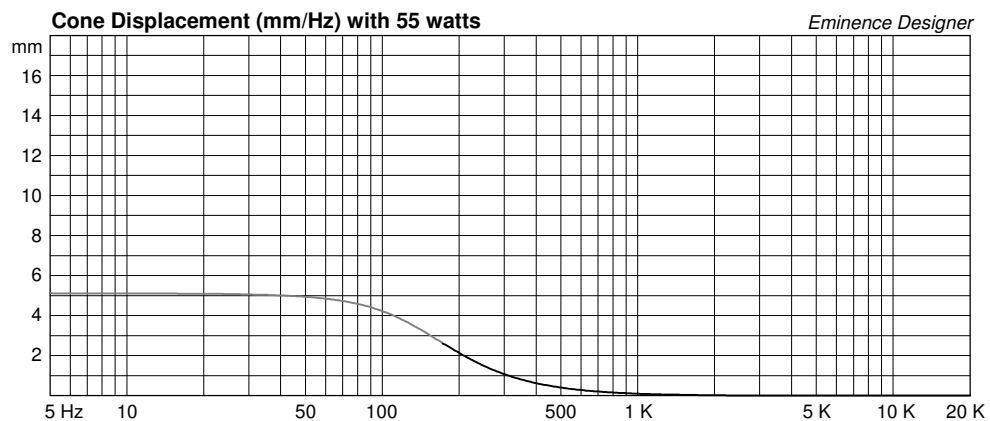
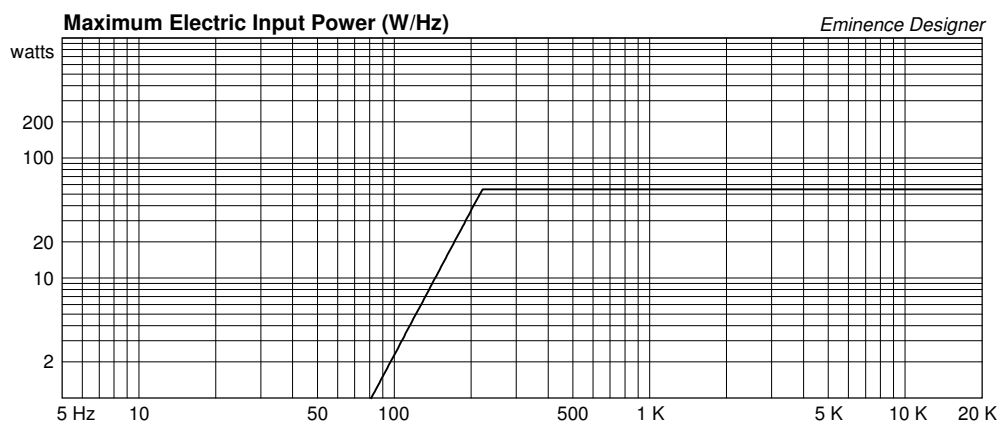
1 Top, 1 Bottom: depth (c) = 5.732 in
width (b) = 8.348, thickness = 0.75 in

1 Front, 1 Back: height (a) = 11.08 in
width (d) = 6.848, thickness = 0.75 in

2 Sides: height (a) = 11.08 in
depth (c) = 5.732, thickness = 0.75 in

--Driver Mounting--
Mounting: Flush





Alpha 4-4 Large Vented Midbass Design

By Jerry McNutt, Eminence Speaker LLC
35 Watts, F3 at 90 Hz. Best used above 109 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.23 cu.ft

V(total) = 0.236 cu.ft

Fb = 111 Hz

QL = 7

F3 = 90.43 Hz

Fill = normal

--Vents--

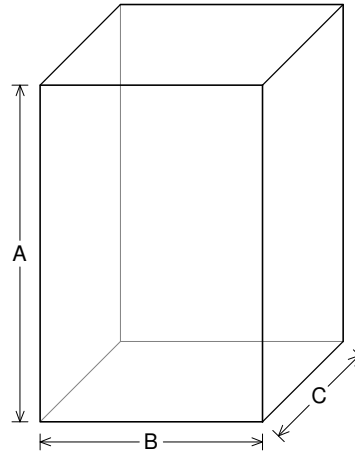
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 2 in

Lv = 0.992 in



--External Dimensions--

A = 13.51 in

B = 8.92 in

C = 6.086 in

--Internal Dimensions--

A = 12.01 in

B = 7.42 in

C = 4.586 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Alpha 4-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 4" Four Ohm Midbass/Full range

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 120.4 Hz

Qms = 6.41

Vas = 1.76 liters

Cms = 0.38 mm/N

Mms = 4.59 g

Rms = 0.54 kg/s

Xmax = 2.6 mm

Xmech = 4.5 mm

P-Dia = 85.27 mm

Sd = 57.72 sq.cm

P-Vd = 0.0148 liters

--Electrical Parameters--

Qes = 0.7

Re = 3.42 ohms

Le = 0.18 mH

Z = 4 ohms

BL = 4.12 Tm

Pe = 55 watts

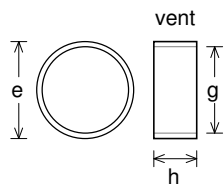
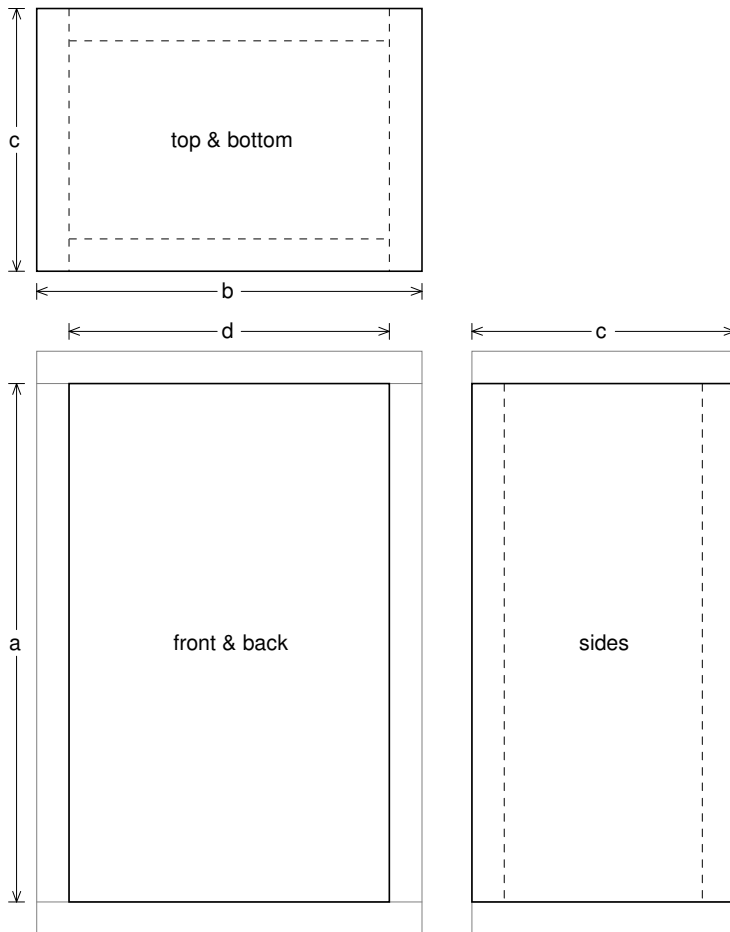
--Electromech. Parameters--

Qts = 0.631

no = 0.423 %

1-W SPL = 88.41 dB

2.83-V SPL = 92.1 dB



Box Parts

Box Shape: Optimum Square Prism

1 Top, 1 Bottom: depth (c) = 6.086 in
width (b) = 8.92, thickness = 0.75 in

1 Front, 1 Back: height (a) = 12.01 in
width (d) = 7.42, thickness = 0.75 in

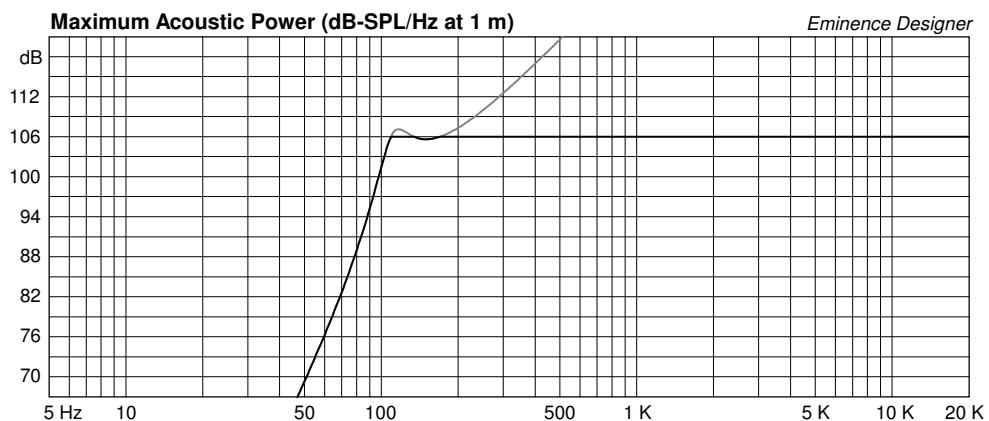
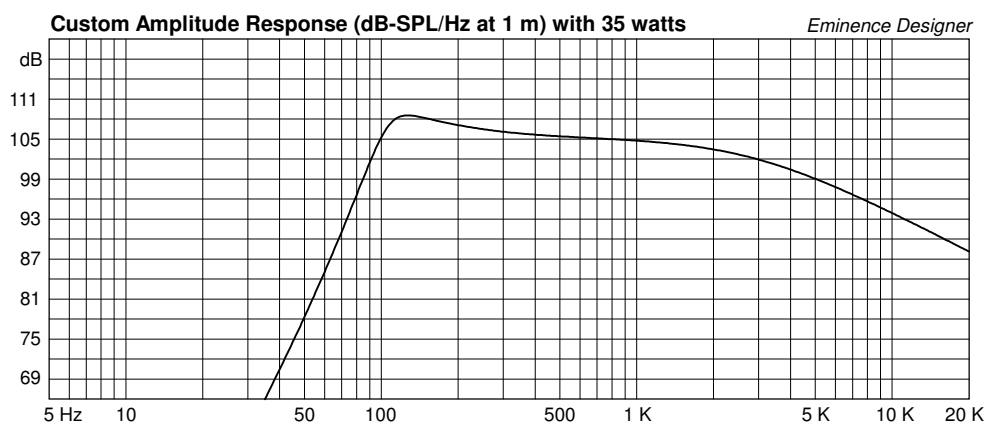
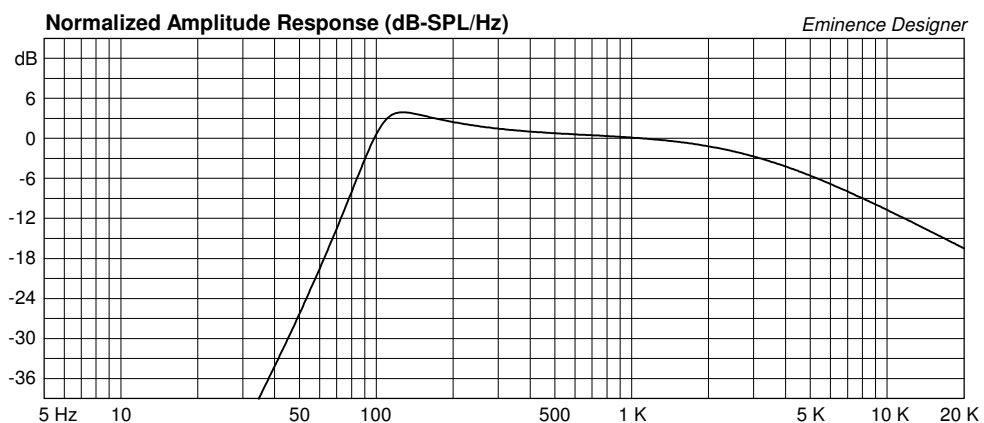
2 Sides: height (a) = 12.01 in
depth (c) = 6.086, thickness = 0.75 in

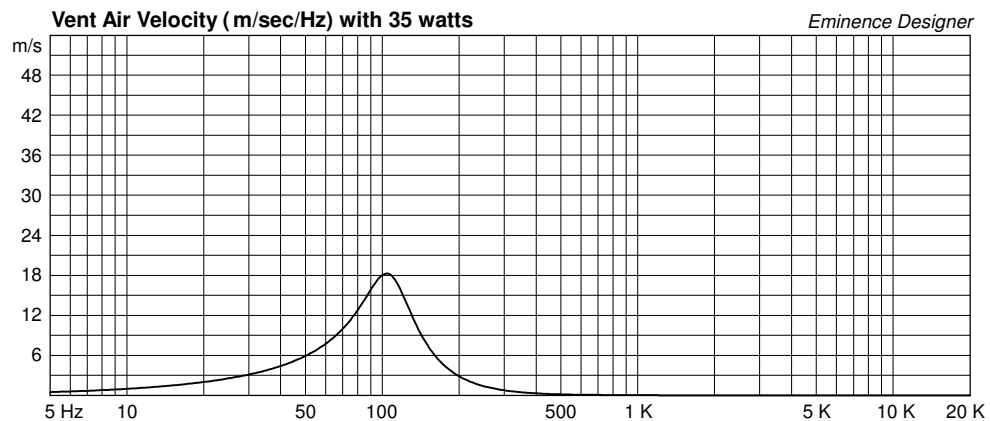
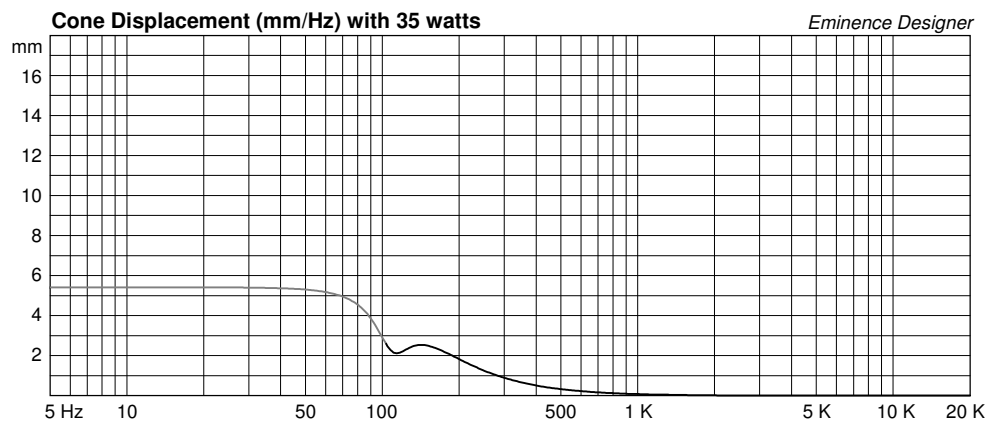
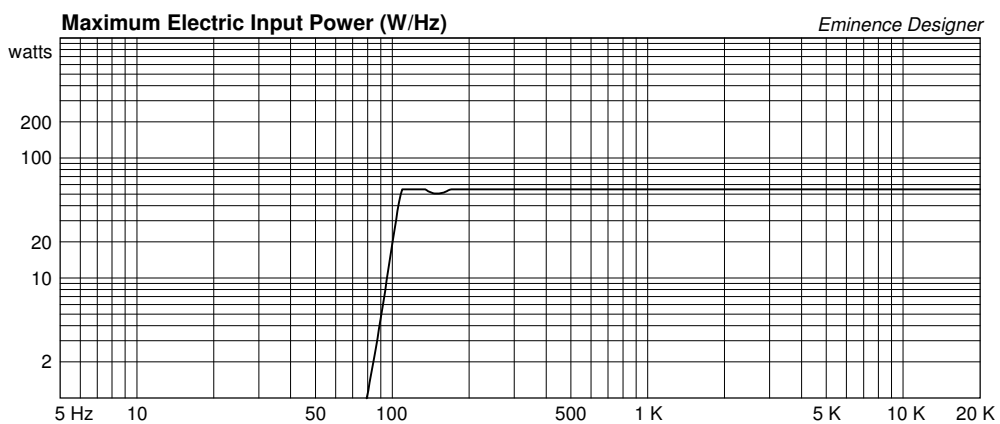
--Vent Parts--

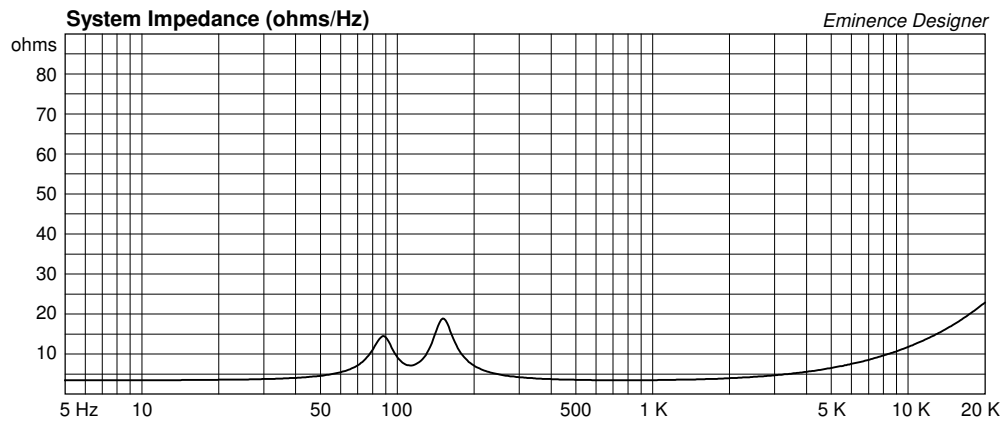
1 Duct: outside diameter (e) = 2.25 in
inside diameter (g) = 2 in
length (h) = 0.992 in

--Driver Mounting--

Mounting: Flush







Alpha 4-4 Medium Sealed Midrange Design

By Jerry McNutt, Eminence Speaker LLC
55 Watts, F3 at 151 Hz. Best used above 220 Hz.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.101 cu.ft

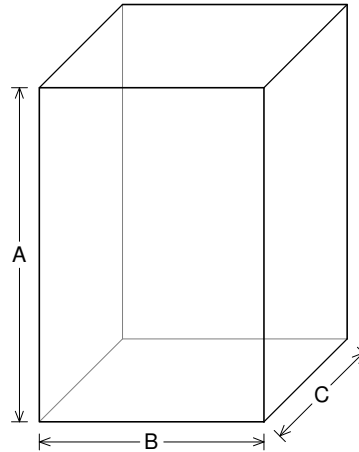
V(total) = 0.107 cu.ft

Qtc = 0.707

QL = 20

F3 = 151.2 Hz

Fill = normal



--External Dimensions--

A = 10.71 in

B = 7.191 in

C = 5.018 in

--Internal Dimensions--

A = 9.209 in

B = 5.691 in

C = 3.518 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Alpha 4-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 4" Four Ohm Midbass/Full range

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 120.4 Hz

Qms = 6.41

Vas = 1.76 liters

Cms = 0.38 mm/N

Mms = 4.59 g

Rms = 0.54 kg/s

Xmax = 2.6 mm

Xmech = 4.5 mm

P-Dia = 85.27 mm

Sd = 57.72 sq.cm

P-Vd = 0.0148 liters

--Electrical Parameters--

Qes = 0.7

Re = 3.42 ohms

Le = 0.18 mH

Z = 4 ohms

BL = 4.12 Tm

Pe = 55 watts

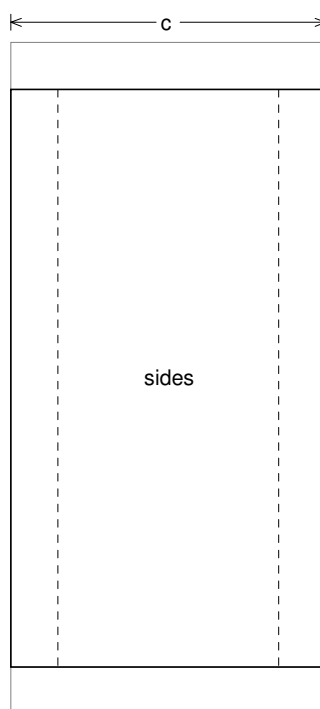
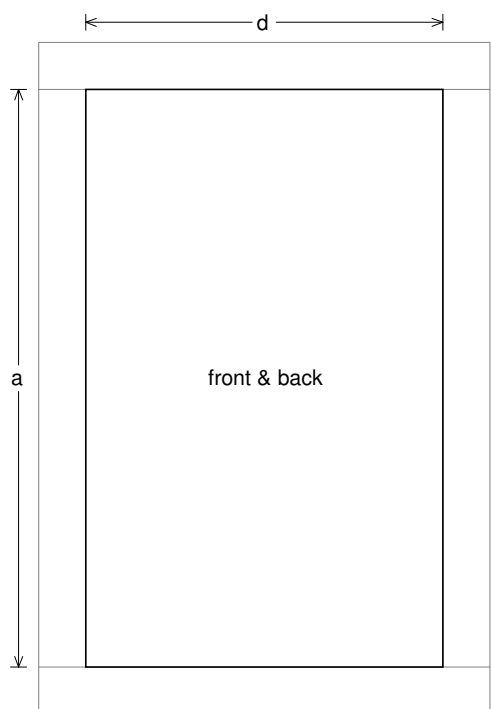
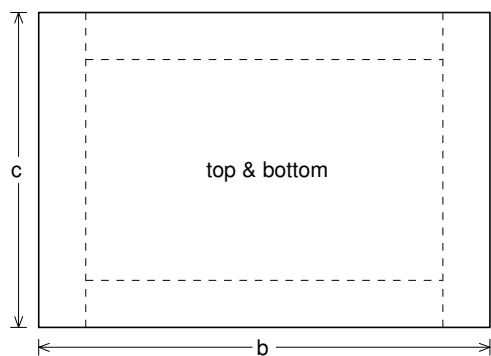
--Electromech. Parameters--

Qts = 0.631

no = 0.423 %

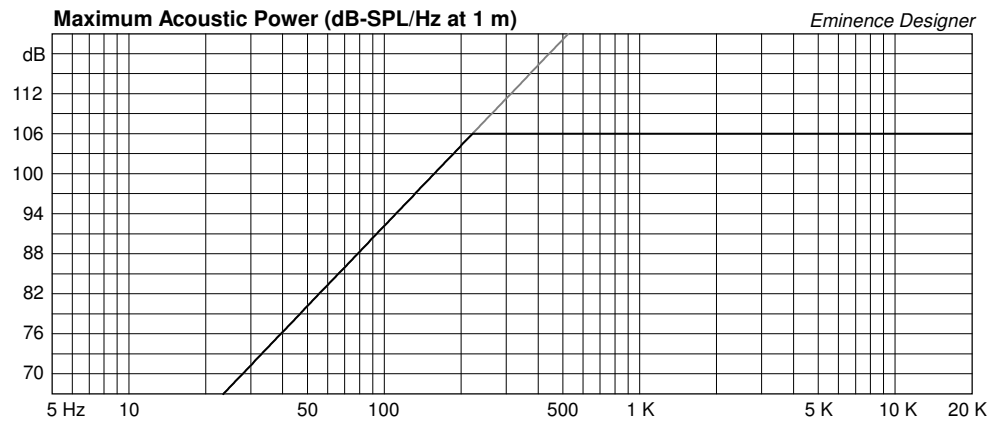
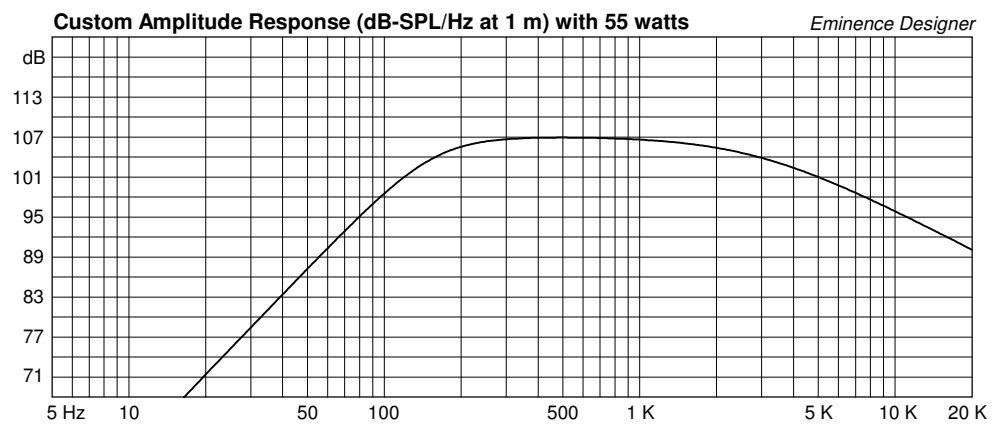
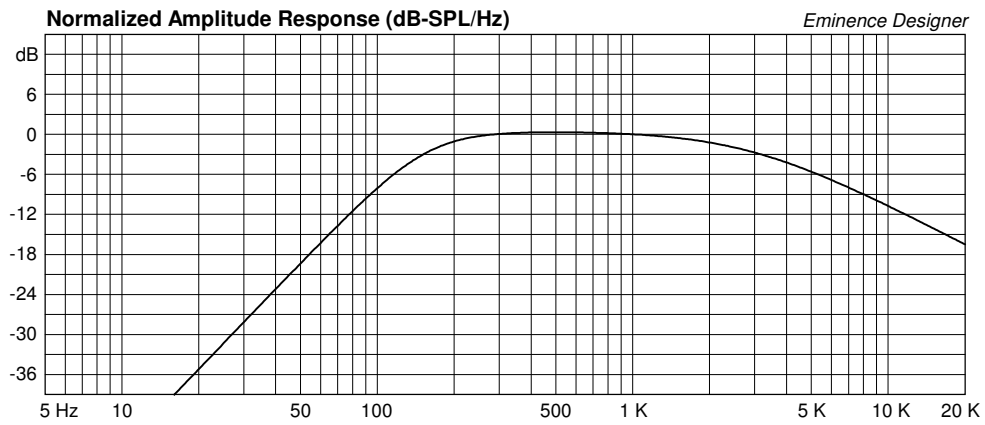
1-W SPL = 88.41 dB

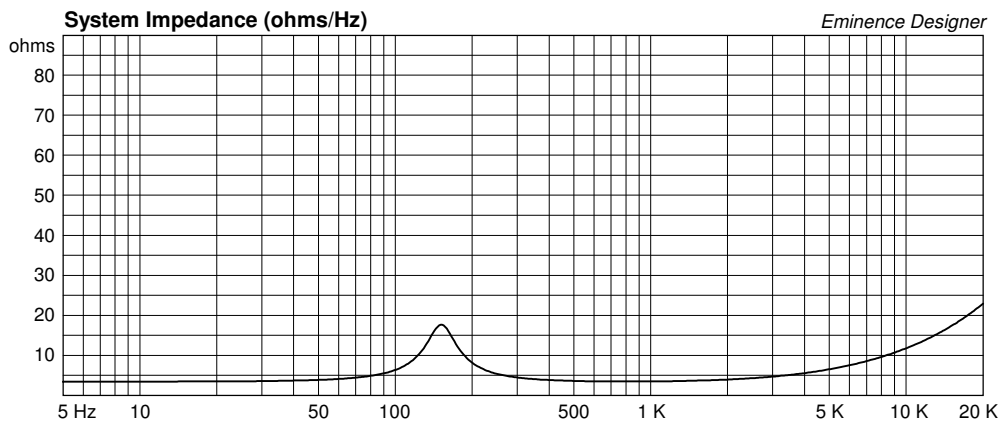
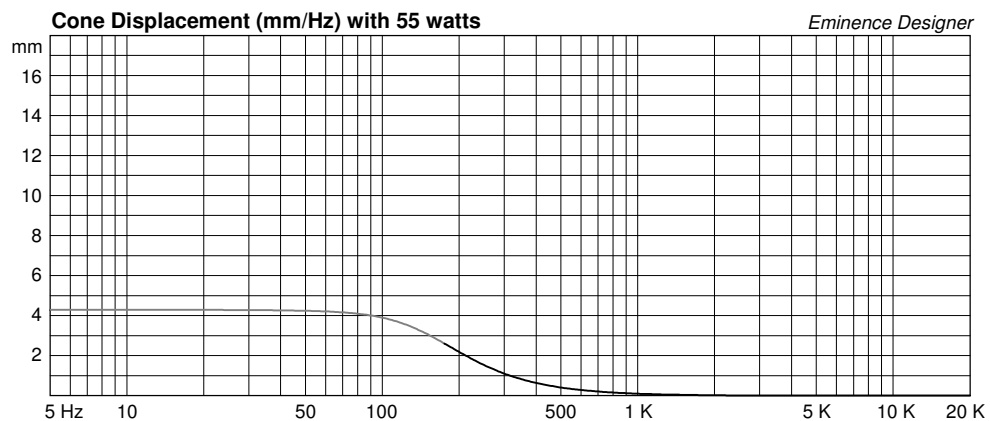
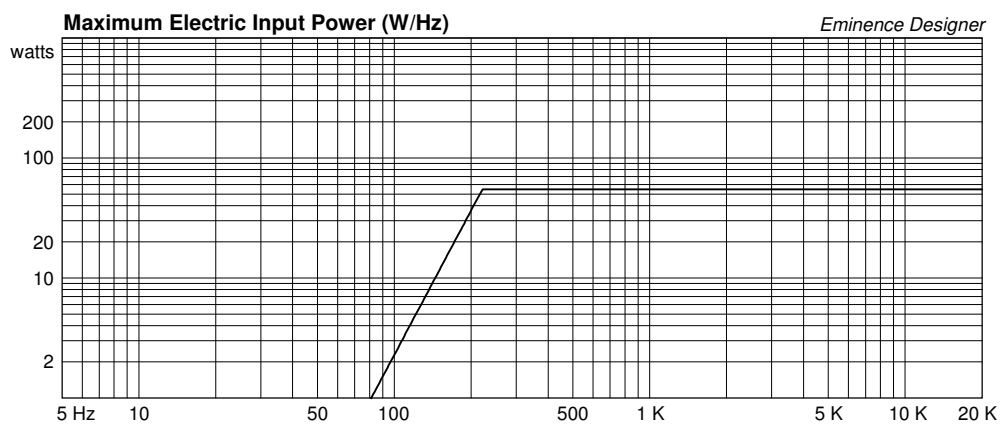
2.83-V SPL = 92.1 dB

**Box Parts**

Box Shape: Optimum Square Prism

1 Top, 1 Bottom: depth (c) = 5.018 in
width (b) = 7.191, thickness = 0.75 in1 Front, 1 Back: height (a) = 9.209 in
width (d) = 5.691, thickness = 0.75 in2 Sides: height (a) = 9.209 in
depth (c) = 5.018, thickness = 0.75 in*--Driver Mounting--*
Mounting: Flush





Alpha 4-4 Medium Vented Midbass Design

By Jerry McNutt, Eminence Speaker LLC
35 Watts, F3 at 92 Hz. Best used above 115 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.19 cu.ft

V(total) = 0.198 cu.ft

Fb = 112 Hz

QL = 7

F3 = 91.67 Hz

Fill = normal

--Vents--

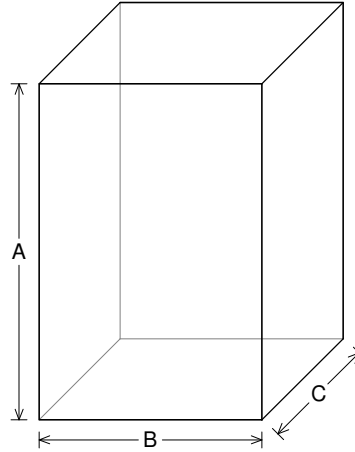
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 2 in

Lv = 1.558 in



--External Dimensions--

A = 12.81 in

B = 8.49 in

C = 5.82 in

--Internal Dimensions--

A = 11.31 in

B = 6.99 in

C = 4.32 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Alpha 4-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 4" Four Ohm Midbass/Full range

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 120.4 Hz

Qms = 6.41

Vas = 1.76 liters

Cms = 0.38 mm/N

Mms = 4.59 g

Rms = 0.54 kg/s

Xmax = 2.6 mm

Xmech = 4.5 mm

P-Dia = 85.27 mm

Sd = 57.72 sq.cm

P-Vd = 0.0148 liters

--Electrical Parameters--

Qes = 0.7

Re = 3.42 ohms

Le = 0.18 mH

Z = 4 ohms

BL = 4.12 Tm

Pe = 55 watts

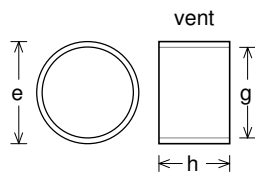
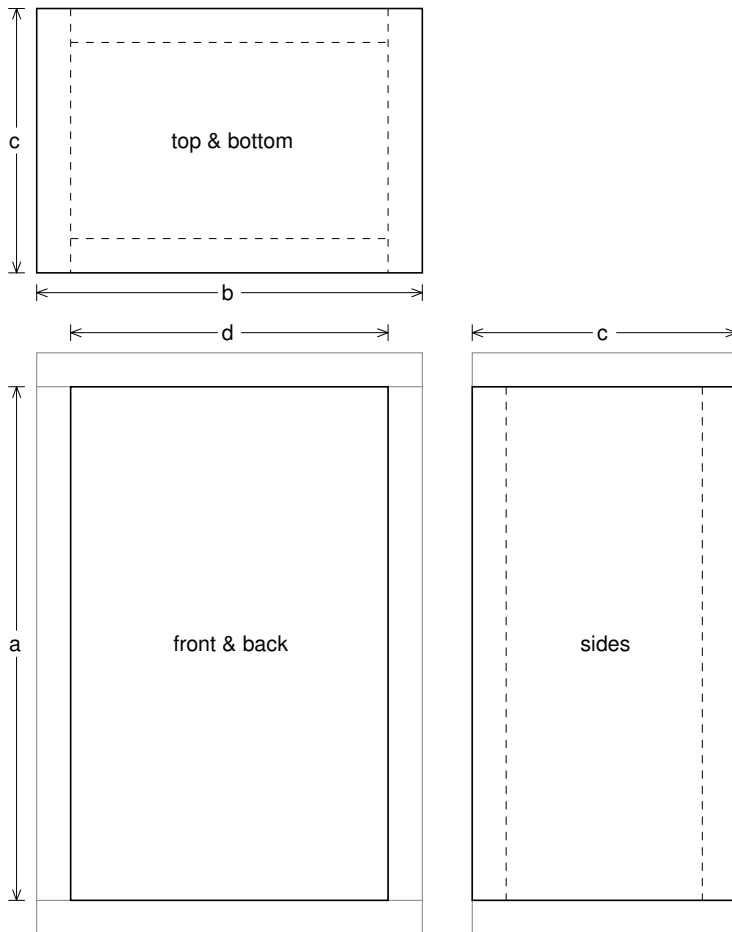
--Electromech. Parameters--

Qts = 0.631

no = 0.423 %

1-W SPL = 88.41 dB

2.83-V SPL = 92.1 dB



Box Parts

Box Shape: Optimum Square Prism

1 Top, 1 Bottom: depth (c) = 5.82 in
width (b) = 8.49, thickness = 0.75 in

1 Front, 1 Back: height (a) = 11.31 in
width (d) = 6.99, thickness = 0.75 in

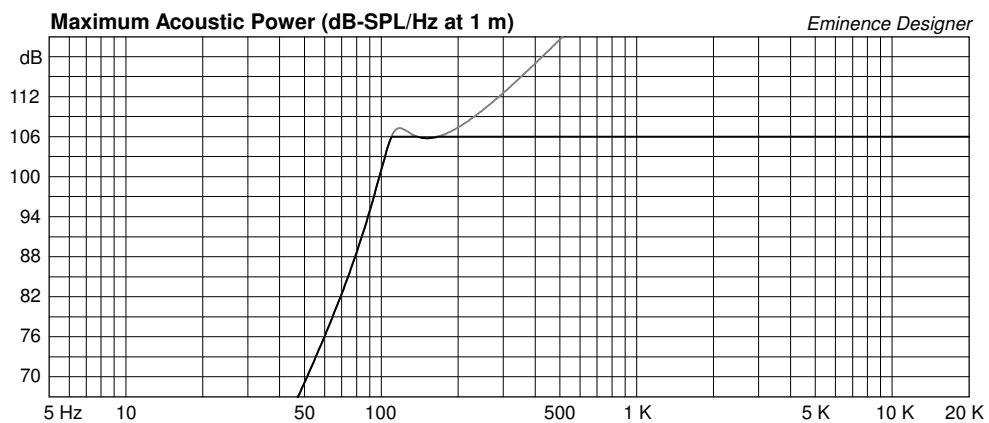
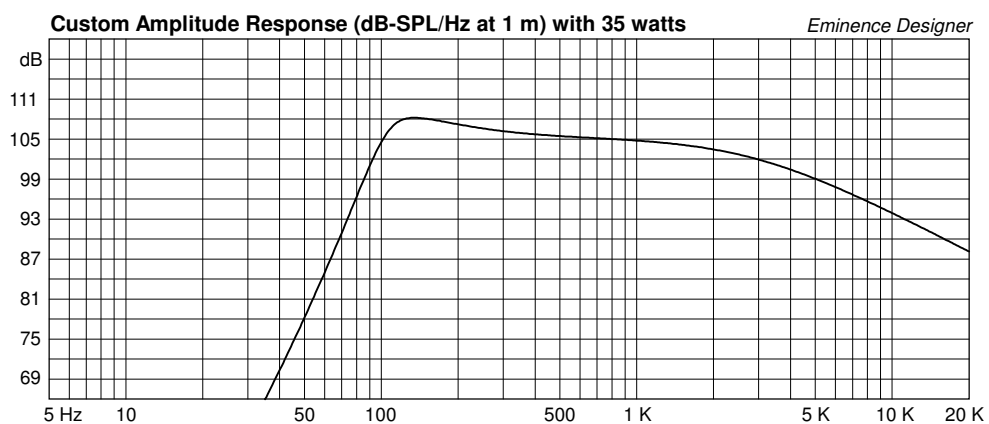
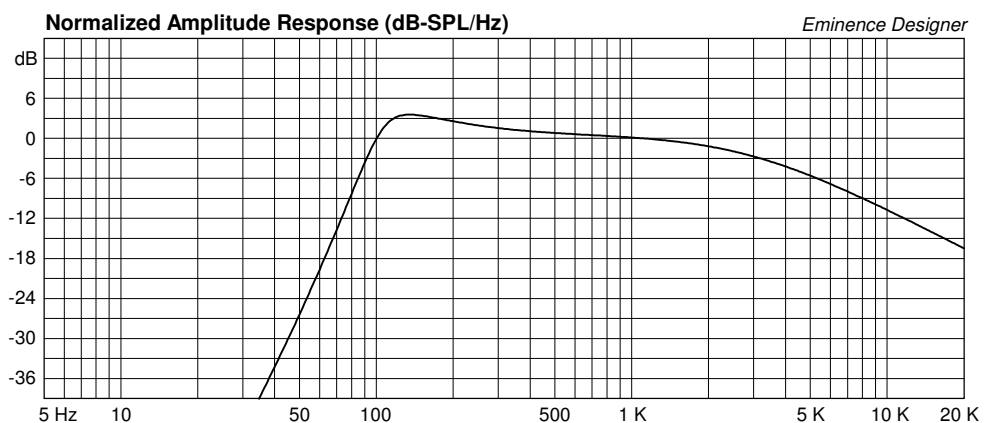
2 Sides: height (a) = 11.31 in
depth (c) = 5.82, thickness = 0.75 in

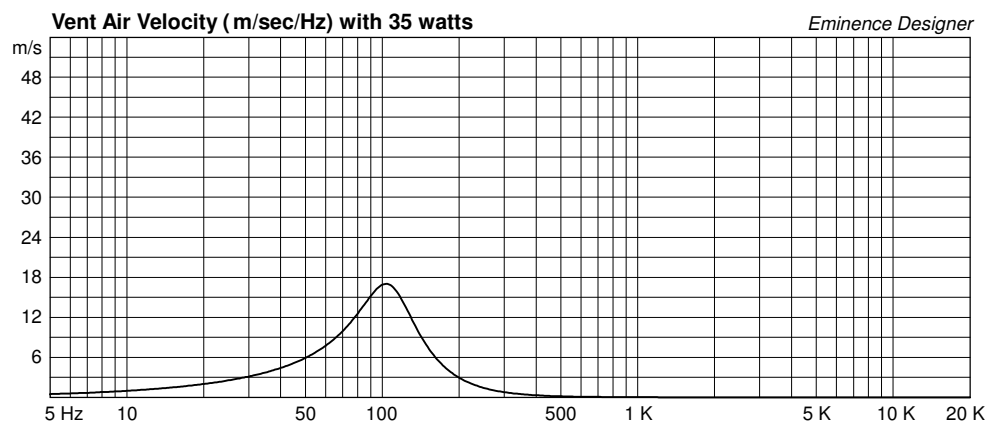
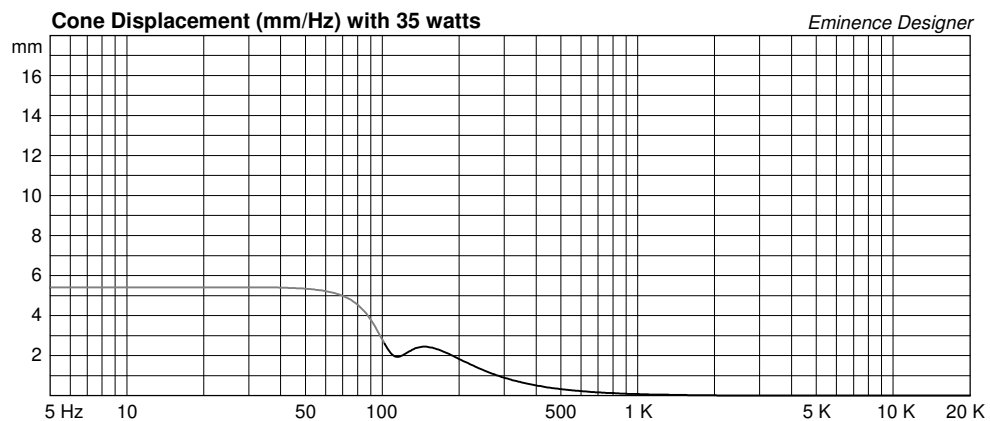
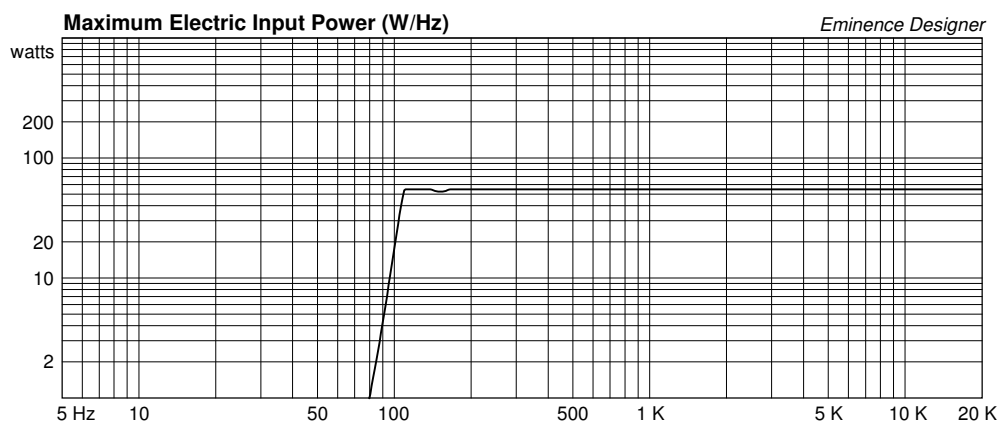
--Vent Parts--

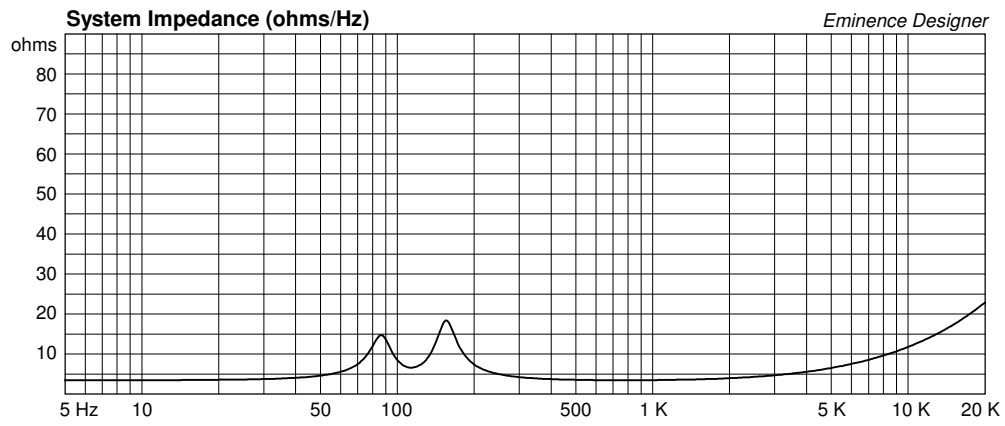
1 Duct: outside diameter (e) = 2.25 in
inside diameter (g) = 2 in
length (h) = 1.558 in

--Driver Mounting--

Mounting: Flush







Alpha 4-4 Small Sealed Midrange Design

By Jerry McNutt, Eminence Speaker LLC
55 Watts, F3 at 154 Hz. Best used above 220 Hz.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.0668 cu.ft

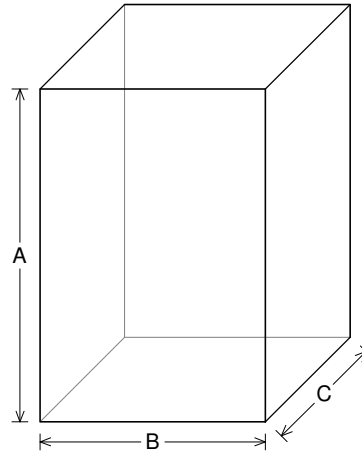
V(total) = 0.0726 cu.ft

Qtc = 0.763

QL = 20

F3 = 154.1 Hz

Fill = normal



--External Dimensions--

A = 9.6 in

B = 6.506 in

C = 4.594 in

--Internal Dimensions--

A = 8.1 in

B = 5.006 in

C = 3.094 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Alpha 4-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 4" Four Ohm Midbass/Full range

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 120.4 Hz

Qms = 6.41

Vas = 1.76 liters

Cms = 0.38 mm/N

Mms = 4.59 g

Rms = 0.54 kg/s

Xmax = 2.6 mm

Xmech = 4.5 mm

P-Dia = 85.27 mm

Sd = 57.72 sq.cm

P-Vd = 0.0148 liters

--Electrical Parameters--

Qes = 0.7

Re = 3.42 ohms

Le = 0.18 mH

Z = 4 ohms

BL = 4.12 Tm

Pe = 55 watts

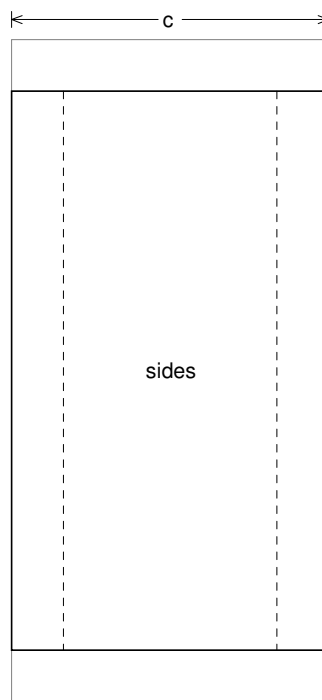
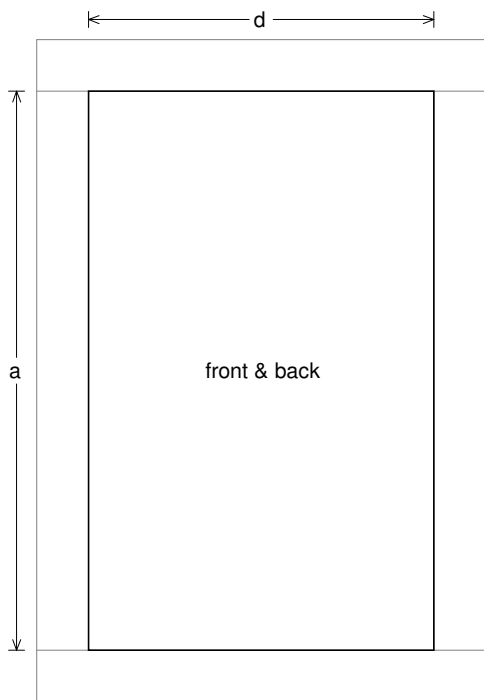
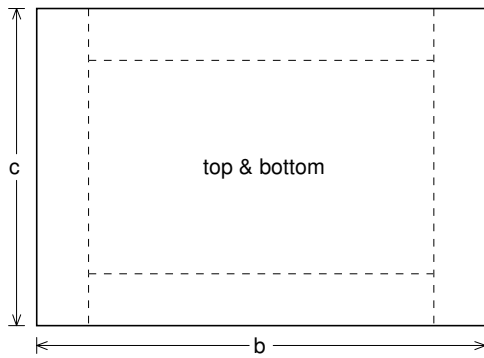
--Electromech. Parameters--

Qts = 0.631

no = 0.423 %

1-W SPL = 88.41 dB

2.83-V SPL = 92.1 dB

**Box Parts**

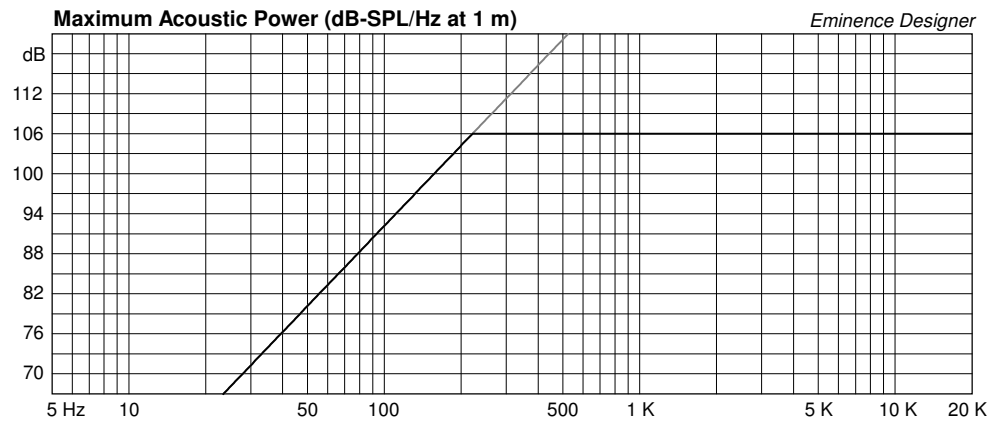
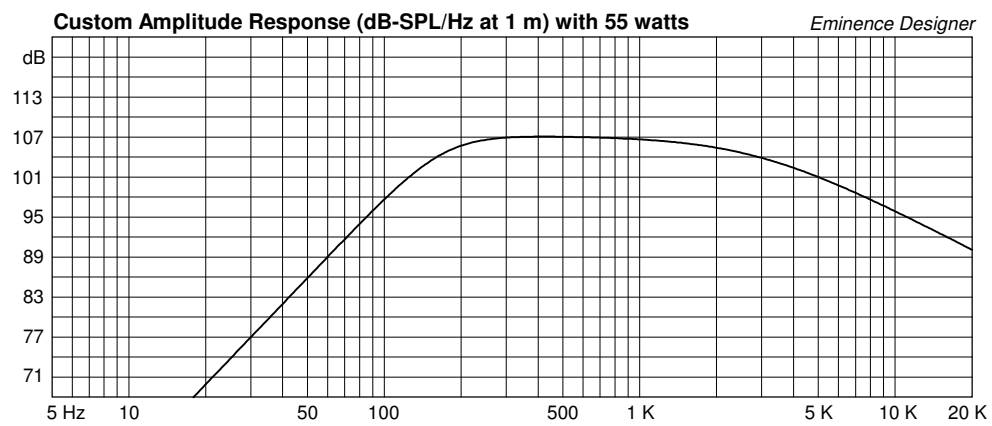
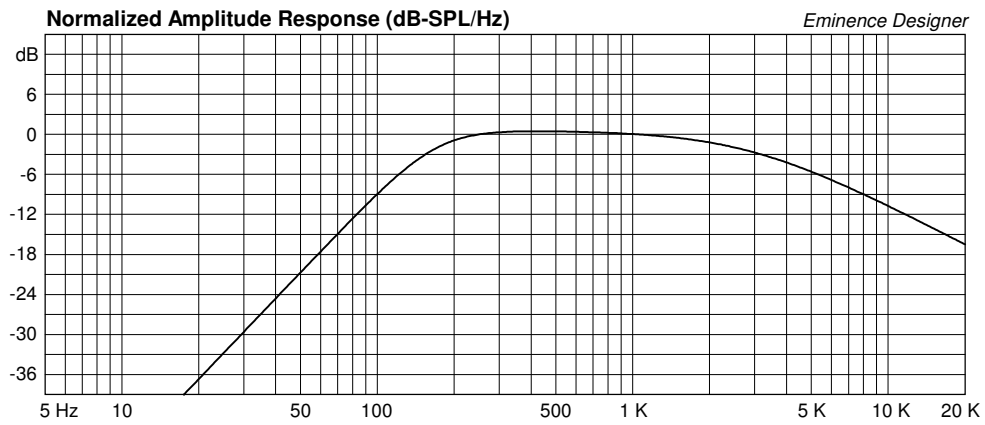
Box Shape: Optimum Square Prism

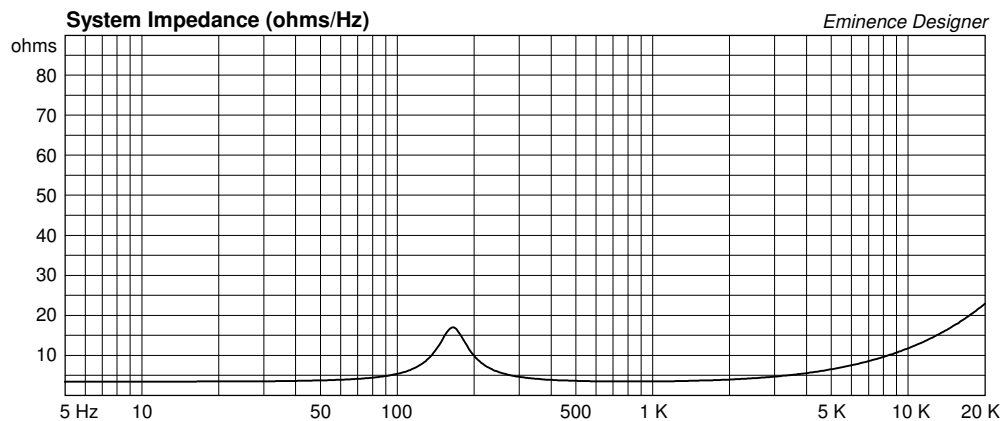
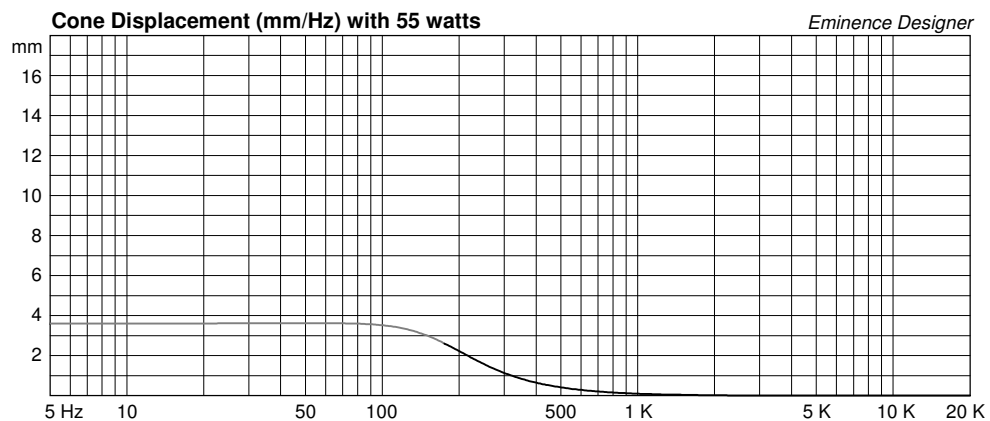
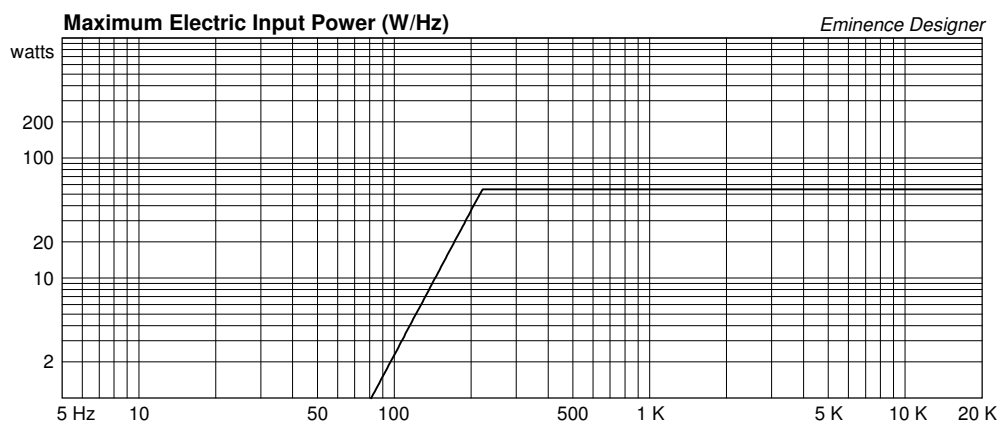
1 Top, 1 Bottom: depth (c) = 4.594 in
width (b) = 6.506, thickness = 0.75 in

1 Front, 1 Back: height (a) = 8.1 in
width (d) = 5.006, thickness = 0.75 in

2 Sides: height (a) = 8.1 in
depth (c) = 4.594, thickness = 0.75 in

--Driver Mounting--
Mounting: Flush





Alpha 4-4 Small Vented MidBass Design

By Jerry McNutt, Eminence Speaker LLC
50 Watts, F3 at 99 Hz. Best used above 115 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.151 cu.ft

V(total) = 0.161 cu.ft

Fb = 115 Hz

QL = 7

F3 = 99.28 Hz

Fill = normal

--Vents--

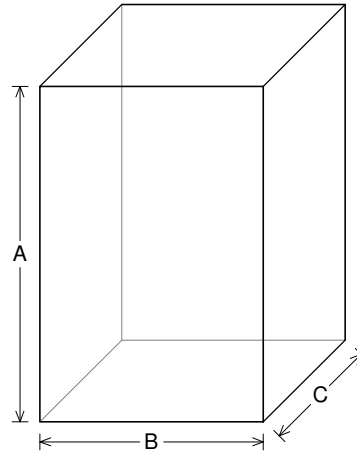
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 1.75 in

Lv = 3.159 in



--External Dimensions--

A = 12.07 in

B = 8.031 in

C = 5.536 in

--Internal Dimensions--

A = 10.57 in

B = 6.531 in

C = 4.036 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Alpha 4-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 4" Four Ohm Midbass/Full range

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 120.4 Hz

Qms = 6.41

Vas = 1.76 liters

Cms = 0.38 mm/N

Mms = 4.59 g

Rms = 0.54 kg/s

Xmax = 2.6 mm

Xmech = 4.5 mm

P-Dia = 85.27 mm

Sd = 57.72 sq.cm

P-Vd = 0.0148 liters

--Electrical Parameters--

Qes = 0.7

Re = 3.42 ohms

Le = 0.18 mH

Z = 4 ohms

BL = 4.12 Tm

Pe = 55 watts

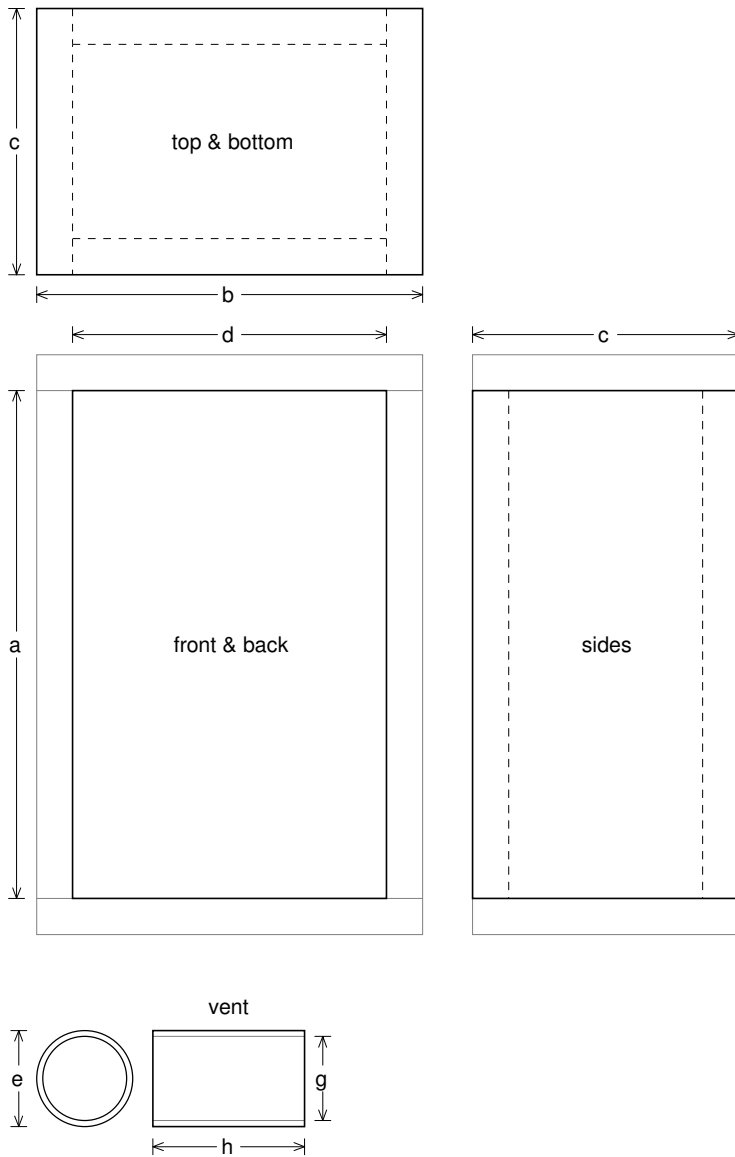
--Electromech. Parameters--

Qts = 0.631

no = 0.423 %

1-W SPL = 88.41 dB

2.83-V SPL = 92.1 dB

**Box Parts**

Box Shape: Optimum Square Prism

1 Top, 1 Bottom: depth (c) = 5.536 in
width (b) = 8.031, thickness = 0.75 in1 Front, 1 Back: height (a) = 10.57 in
width (d) = 6.531, thickness = 0.75 in2 Sides: height (a) = 10.57 in
depth (c) = 5.536, thickness = 0.75 in**--Vent Parts--**1 Duct: outside diameter (e) = 2 ininside diameter (g) = 1.75 inlength (h) = 3.159 in**--Driver Mounting--**

Mounting: Flush

