

Custom Vented Box w/ Active High-Pass Filter

By Greg_, none



Box Properties

--Description--

Name:

Type: Vented Box w/ Active HP Filter

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.381 cu.ft

V(total) = 2.528 cu.ft

Fb = 15.68 Hz

QL = 6.723

F3 = 19.67 Hz

Fill = heavy

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

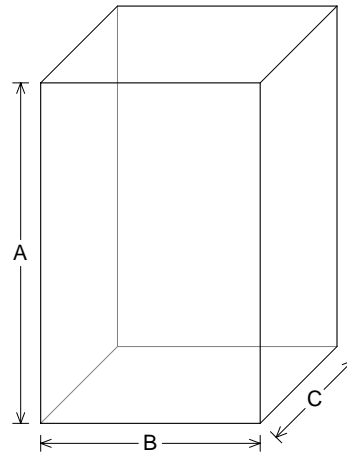
Dv = 2.509 in

Lv = 18 in

--Active 12 dB/oct. HP Filter--

Fx = 16.78 Hz

Qx = 1.93



--External Dimensions--

A = 28.45 in

B = 18.35 in

C = 12.1 in

--Internal Dimensions--

A = 26.45 in

B = 16.35 in

C = 10.1 in

--Wall Thickness--

Front = 1 in

Side = 1 in

Driver Properties

--Description--

Name: 295-4643 GJC

Type: Standard one-way driver

Company: Dayton Loudspeaker Co.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 23 Hz

Qms = 3

Vas = 3 cu.ft

Cms = 0.026 in/lb

Mms = 11.38 oz

Rms = 34.25 lb/s

Xmax = 0.551 in

Xmech = 1.102 in

P-Dia = 11.19 in

Sd = 98.31 sq.in

P-Vd = 0.0314 cu.ft

--Electrical Parameters--

Qes = 0.52

Re = 3.3 ohms

Le = 0.95 mH

Z = 4 ohms

BL = 3.867 lb/A

Pe = 700 watts

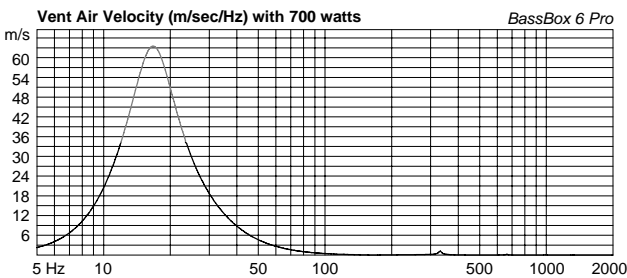
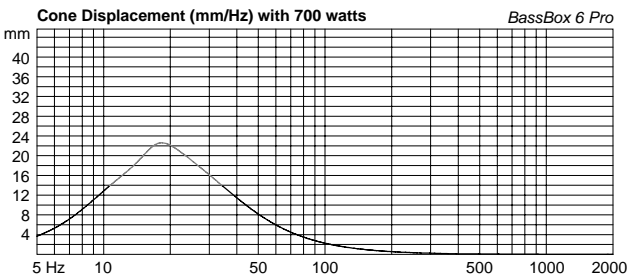
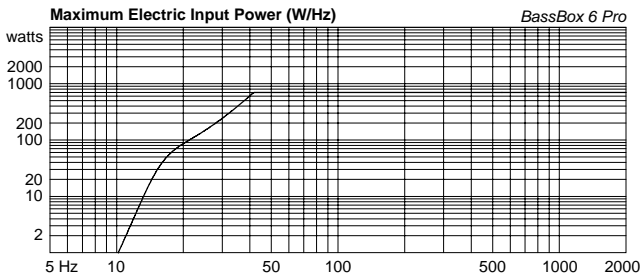
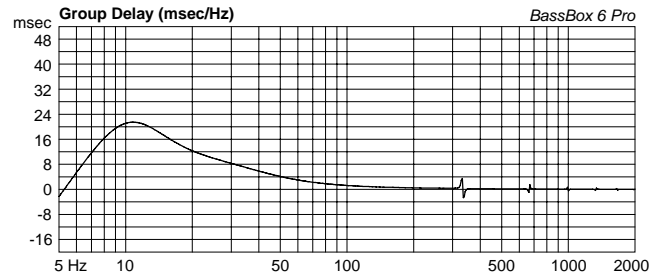
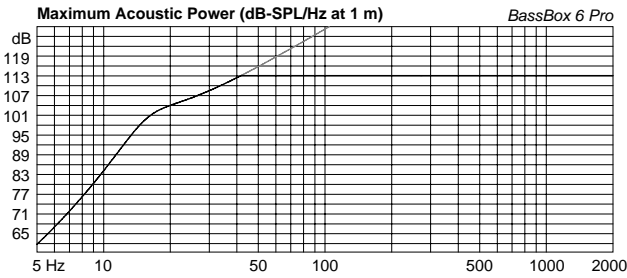
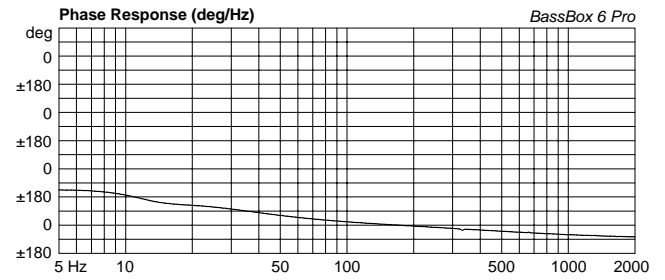
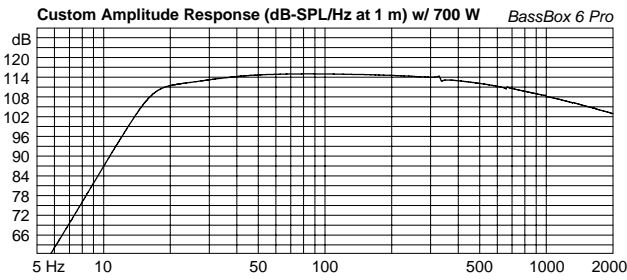
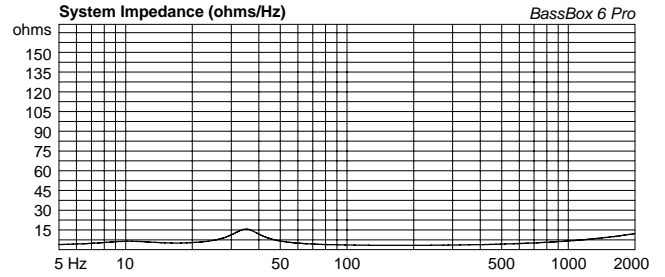
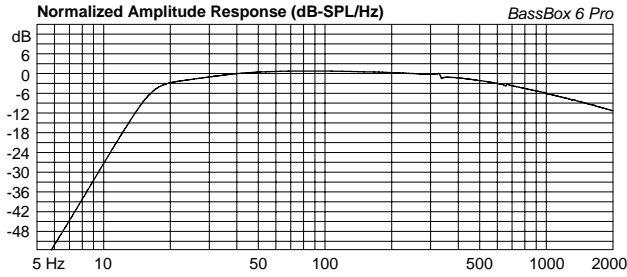
--Electromech. Parameters--

Qts = 0.44

no = 0.192 %

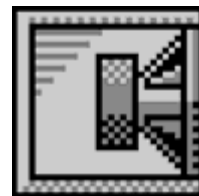
1-W SPL = 84.97 dB

2.83-V SPL = 89 dB



Custom Vented Box Design

By Greg_, none



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 4.5 cu.ft

V(total) = 4.881 cu.ft

Fb = 18.6 Hz

QL = 6.506

F3 = 22.97 Hz

Fill = none

--Vents--

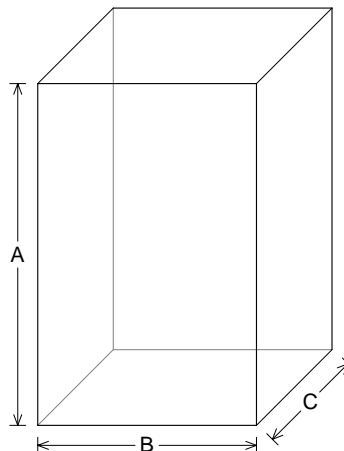
No. of Vents = 1

Vent shape = round

Vent ends = two flared

Dv = 4.639 in

Lv = 28 in



--External Dimensions--

A = 35.05 in

B = 22.43 in

C = 14.63 in

--Internal Dimensions--

A = 33.05 in

B = 20.43 in

C = 12.63 in

--Wall Thickness--

Front = 1 in

Side = 1 in

Driver Properties

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--Configuration--

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--Mechanical Parameters--

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Rms = 34.25 lb/s

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