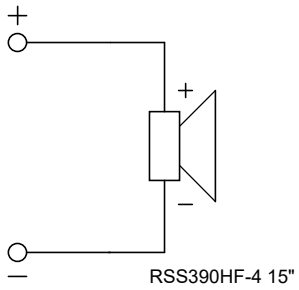
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 8.933 cu.ft
V(total) = 9.223 cu.ft
Fb = 16.29 Hz
QL = 5.274
F3 = 20.87 Hz
Fill = minimal
--Vents--
No. of Vents = 1
Vent shape = rectangle
Vent ends = two flush
Hv = 2 in
Wv = 17.5 in
Lv = 36.86 in

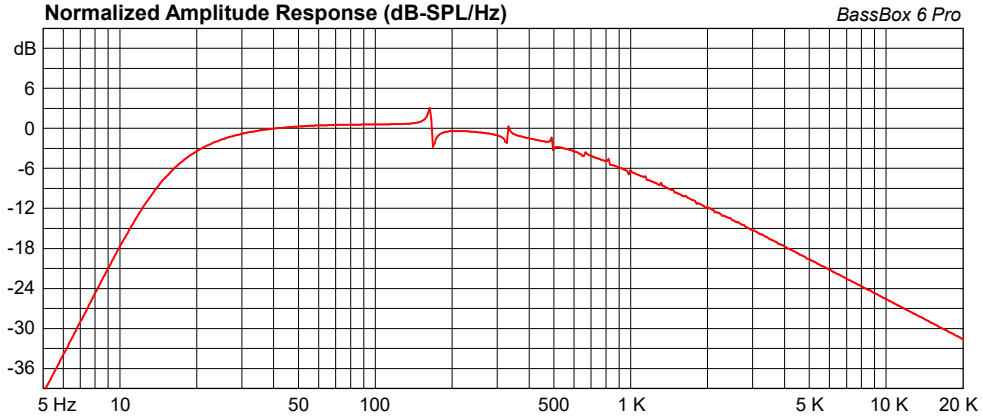
Driver Properties

--Description--
Name: RSS390HF-4 15"
Type: Standard one-way driver
Company: Dayton Loudspeaker Co.
--Configuration--
No. of Drivers = 1
--Mechanical Parameters--
Fs = 18 Hz
Qms = 3.1
Vas = 9.546 cu.ft
Cms = 0.168 mm/N
Mms = 466.2 g
Rms = 17.01 kg/s
Xmax = 14 mm
Xmech = 21 mm
P-Dia = 368.3 mm
Sd = 1065 sq.cm
P-Vd = 1.491 liters
--Electrical Parameters--
Qes = 0.49
Re = 3.3 ohms
Le = 1 mH
Z = 4 ohms
BL = 18.84 Tm
Pe = 500 watts
--Electromech. Parameters--
Qts = 0.42
no = 0.31 %
1-W SPL = 87.06 dB
2.83-V SPL = 90 dB

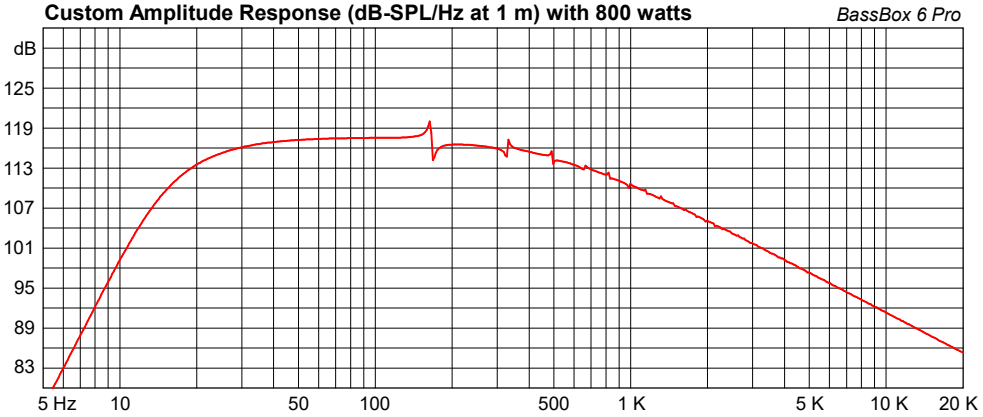
Wiring Diagram



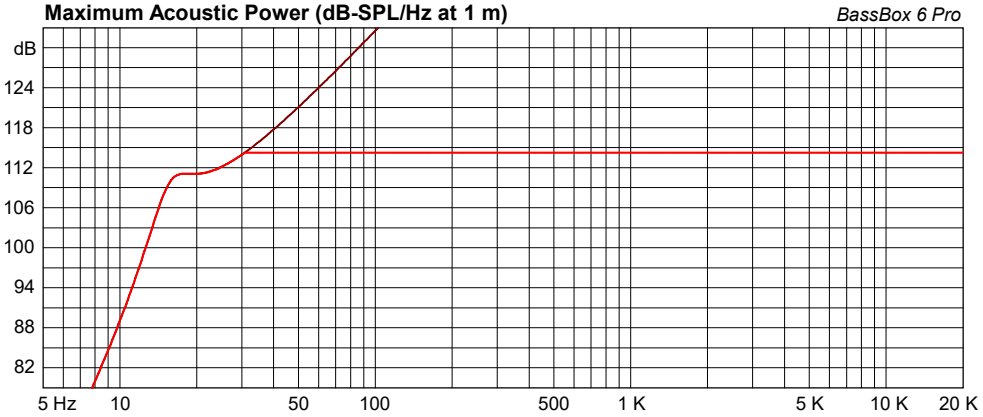
Normalized Amplitude Response (dB-SPL/Hz) *BassBox 6 Pro*



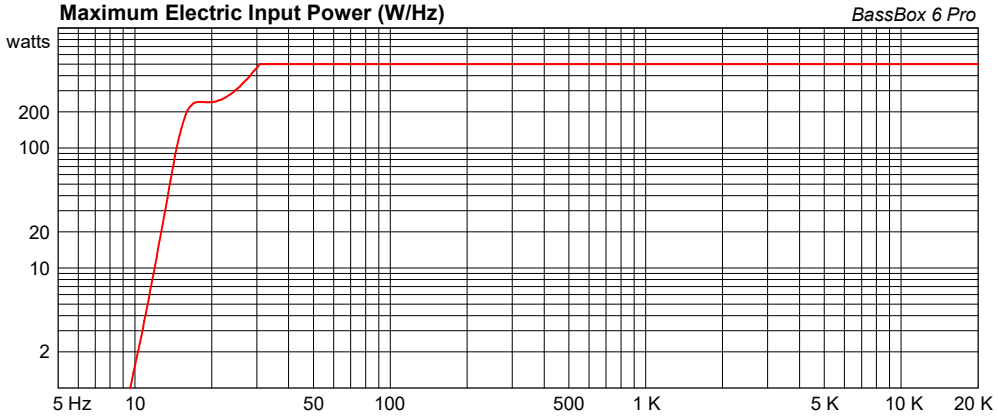
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 800 watts *BassBox 6 Pro*



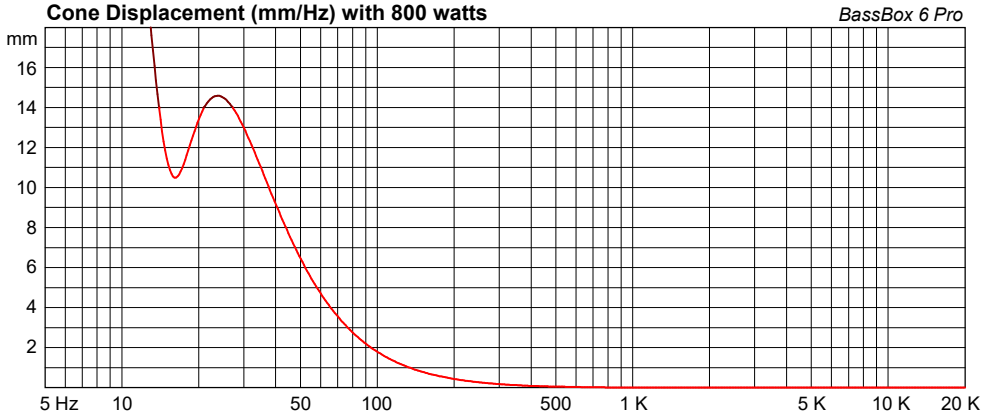
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *BassBox 6 Pro*



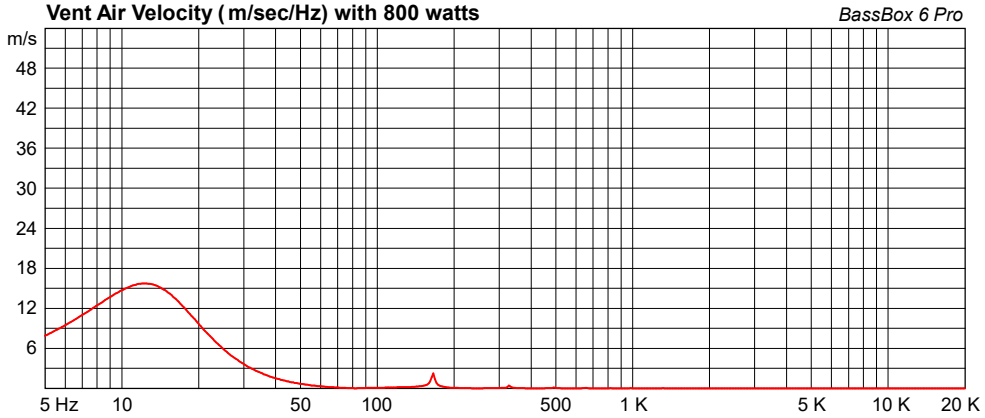
Maximum Electric Input Power (W/Hz) *BassBox 6 Pro*

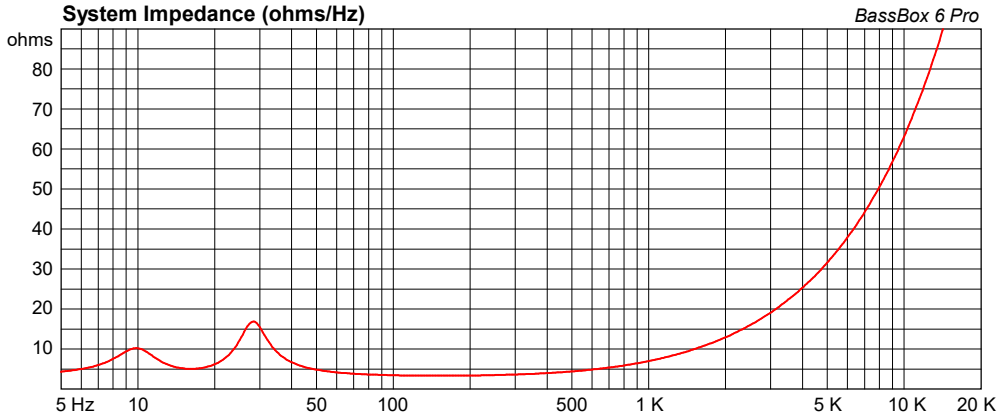


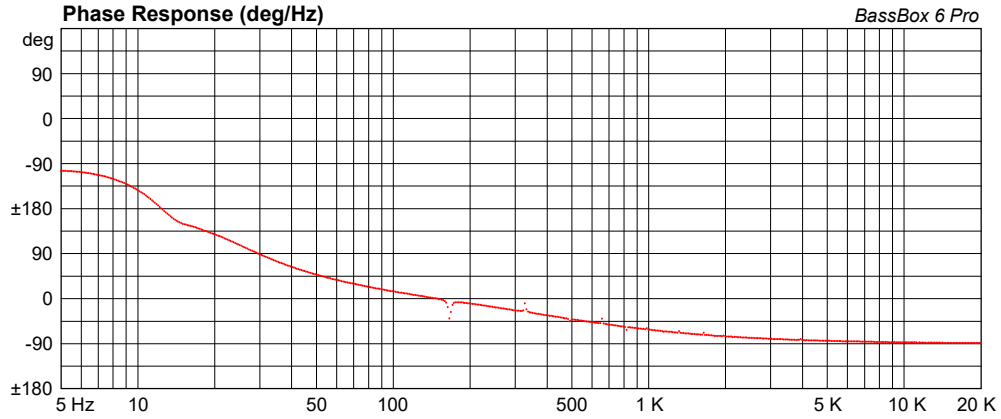
Cone Displacement (mm/Hz) with 800 watts *BassBox 6 Pro*

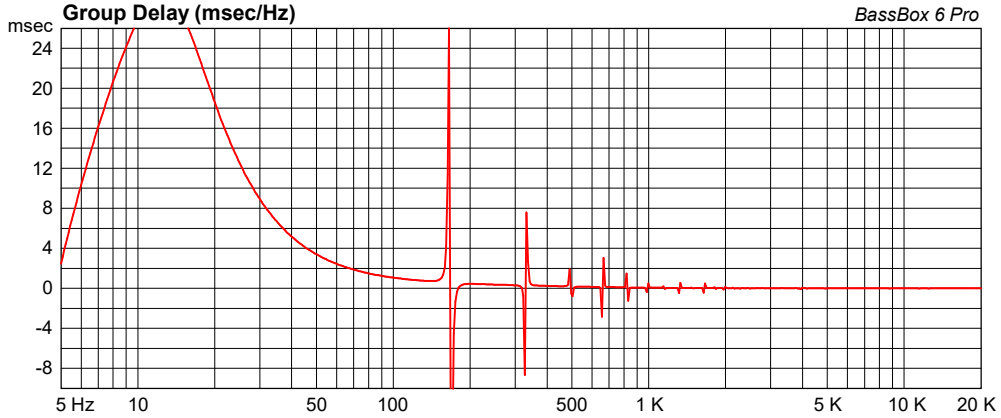


Vent Air Velocity (m/sec/Hz) with 800 watts *BassBox 6 Pro*




System Impedance (ohms/Hz)
BassBox 6 Pro
ohms
80
70
60
50
40
30
20
10
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K


Phase Response (deg/Hz)
BassBox 6 Pro
deg
90
0
-90
±180
90
0
-90
±180
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K


Group Delay (msec/Hz)
BassBox 6 Pro
msec
24
20
16
12
8
4
0
-4
-8
5 Hz
10
50
100
500
1 K
5 K
10 K
20 K