



AMERICAN STANDARD SERIES

ALPHA-8A

Recommended for professional audio mid-range applications in a sealed cabinet, or as a mid-bass in a vented satellite enclosure.



SPECIFICATION

Nominal Basket Diameter	8.0", 203 mm
Nominal Impedance*	8 Ω
Power Rating**	
Watts	125 W
Music Program	250 W
Resonance	73 Hz
Usable Frequency Range	58 Hz – 5.0 kHz
Sensitivity***	94.0 dB
Magnet Weight	20 oz.
Gap Height	.250", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS*

Fs	73 Hz
Re	5.30 Ω
Le	0.44 mH
Qms	4.60
Qes	0.68
Qts	0.59
Vas	0.63 cu.ft., 17.70 liters
Vd	67.0 cc
Cms	0.28 mm/N
BL	7.80 T-M
Mms	17 grams
EBP	107
Xmax	3.20 mm
Sd	210.0 cm ²
Xlim	7.1 mm

MOUNTING INFORMATION

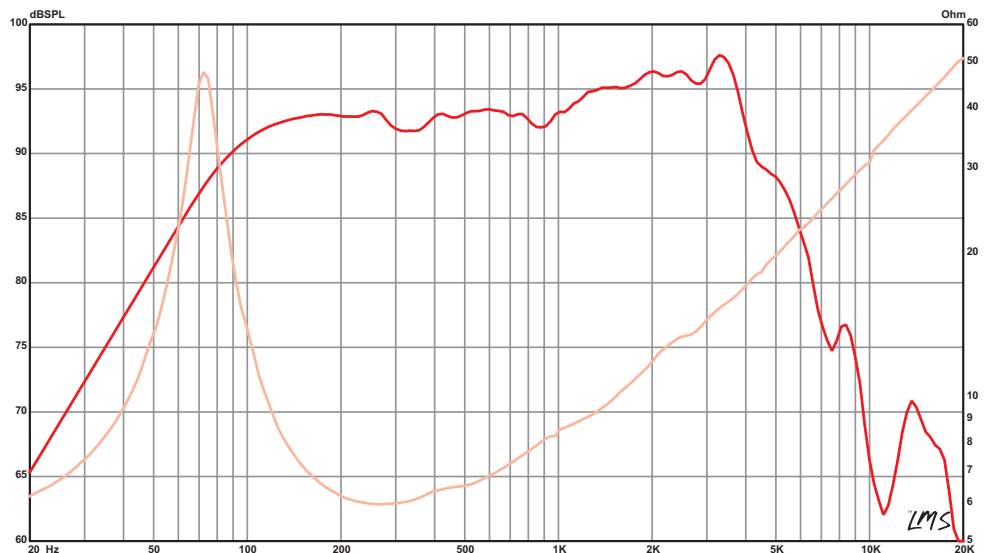
Recommended Enclosure Volume	
Sealed	5.00–7.00 liters, 0.18–0.25 cu.ft.
Vented	16.70–25.50 liters, 0.59–0.90 cu.ft.
Driver Volume Displaced	0.020 cu.ft., 0.58 liters
Overall Diameter	8.24", 209.3 mm
Baffle Hole Diameter	7.13", 181.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.22", 5.6 mm
Mounting Holes B.C.D.	7.75", 196.9 mm
Depth	3.25", 82.6 mm
Net Weight	4.30 lbs , 1.95 kg
Shipping Weight	5.10 lbs , 2.31 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap



FREQUENCY RESPONSE & IMPEDANCE CURVE*



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MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.

FOOTNOTES

- * Please consult www.eminence.com for specifications of models with alternative impedances.
- ** Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment.
- *** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. 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 | Carver PM-120 amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).
- **** BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.
- ***** Multiple units exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.
- *****The average on axis output across the entire usable frequency range when applying 1W/1m into the nominal impedance, i.e. 2.83V/8Ω, 4V/16Ω. 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 | 2ft x 2ft baffle is built into the wall with horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices, specifications and product cosmetics are subject to change without notice.

EMINENCE SPEAKER LLC

838 Mulberry Pike, Eminence, KY 40019



Alpha8 Med Vented Enclosure

By McJerry, Eminence Speaker LLC

50 Watt Displacement Limit. F3 of 58 Hz; Best used with a high pass filter set to 55 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.85 cu.ft

V(total) = 0.887 cu.ft

Fb = 60 Hz

QL = 7

F3 = 58.05 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 3.475 in

Driver Properties

--Description--

Name: Alpha-8

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 20 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 72.7 Hz

Qms = 4.6

Vas = 17.7 liters

Xmax = 3.2 mm

Sd = 210 sq.cm

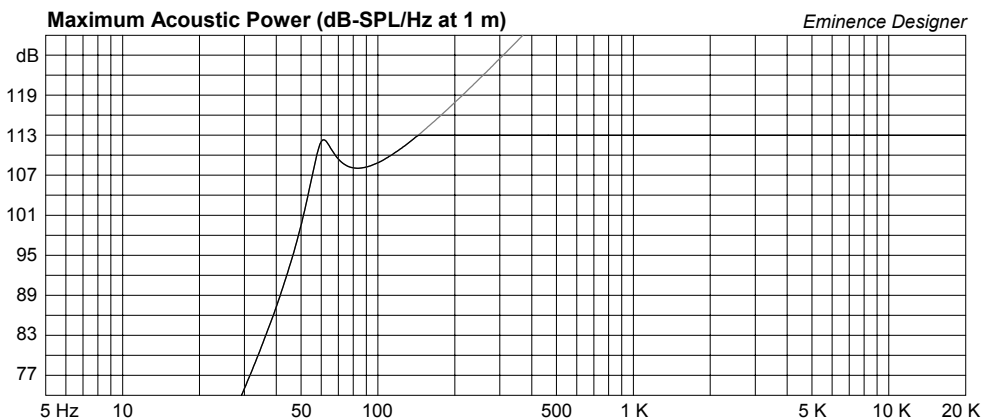
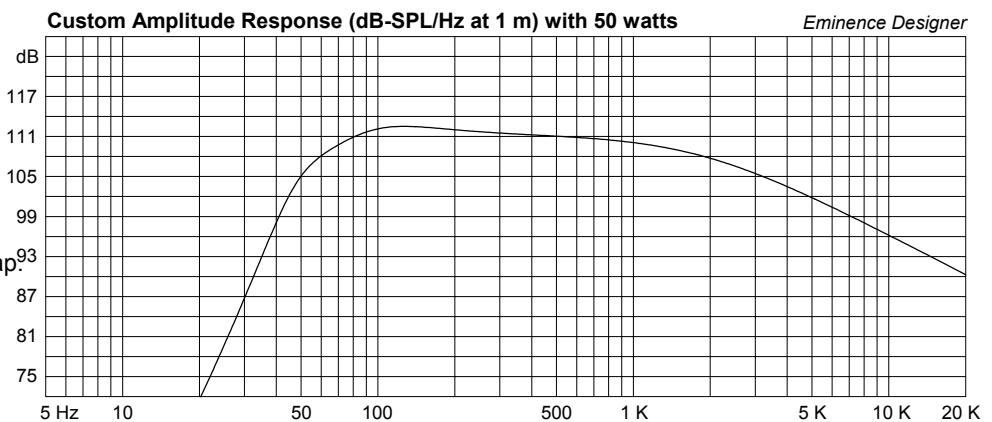
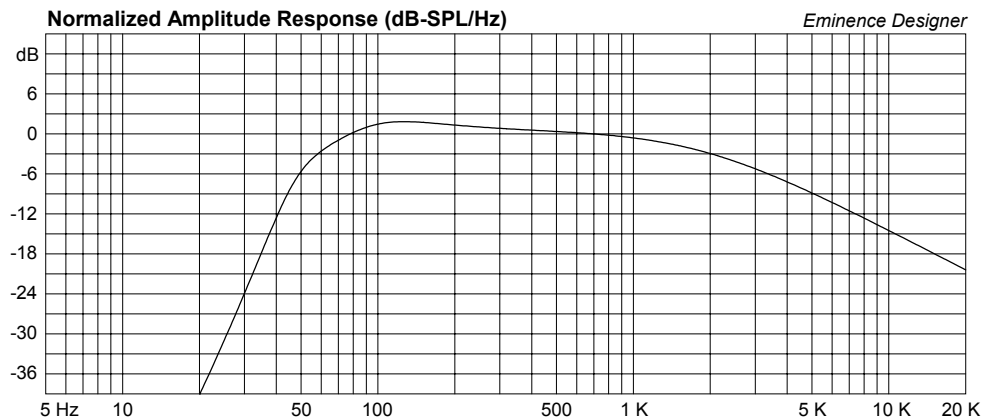
Qes = 0.68

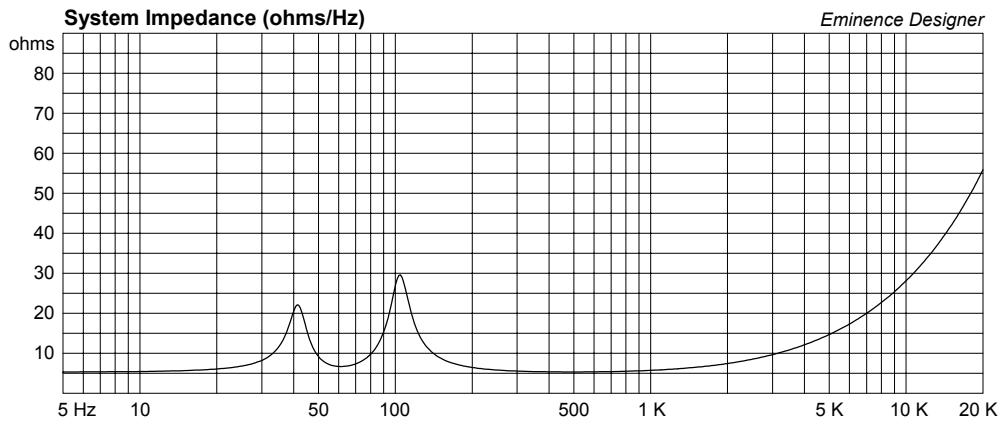
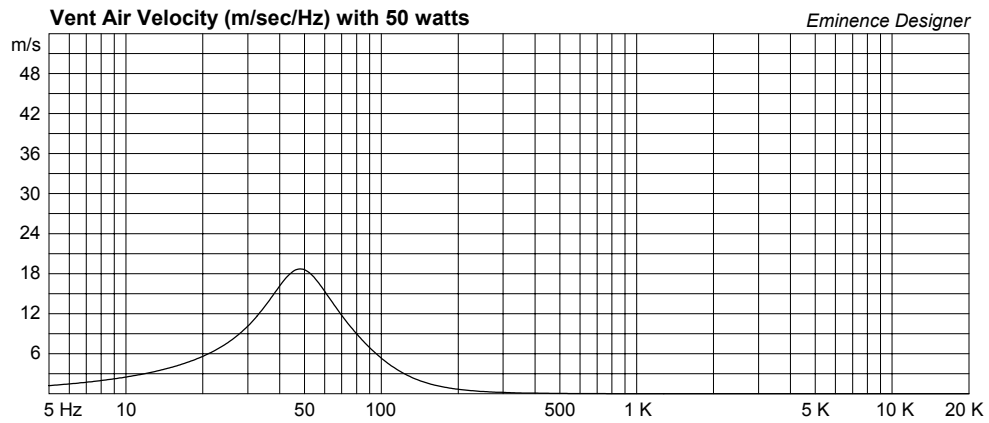
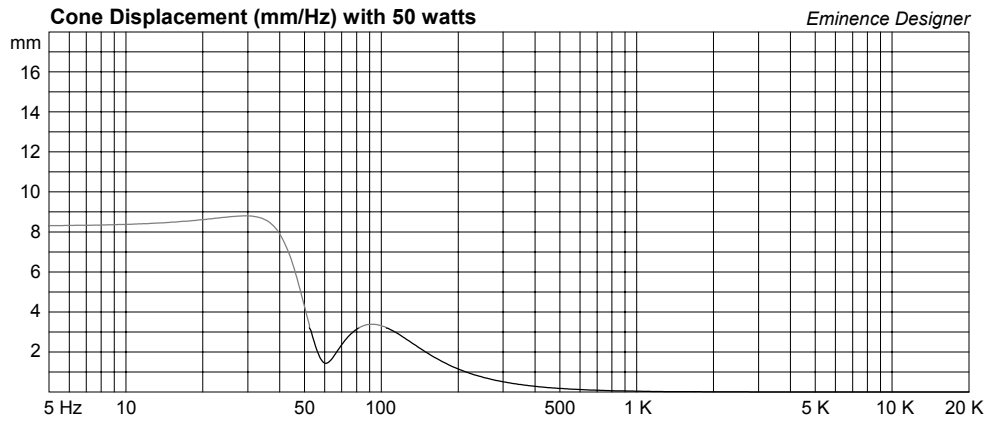
Re = 5.3 ohms

Le = 0.44 mH

Z = 8 ohms

Pe = 125 watts





Alpha8 Sealed Midrange Enclosure

By McJerry, Eminence Speaker LLC

125 Watt Thermal Limit. Use a steep High Pass filter set to 160 Hz or higher.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.18 cu.ft

V(total) = 0.2 cu.ft

Qtc = 0.902

QL = 20

F3 = 119 Hz

Fill = heavy

Driver Properties

--Description--

Name: Alpha-8

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 20 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 72.7 Hz

Qms = 4.6

Vas = 17.7 liters

Xmax = 3.2 mm

Sd = 210 sq.cm

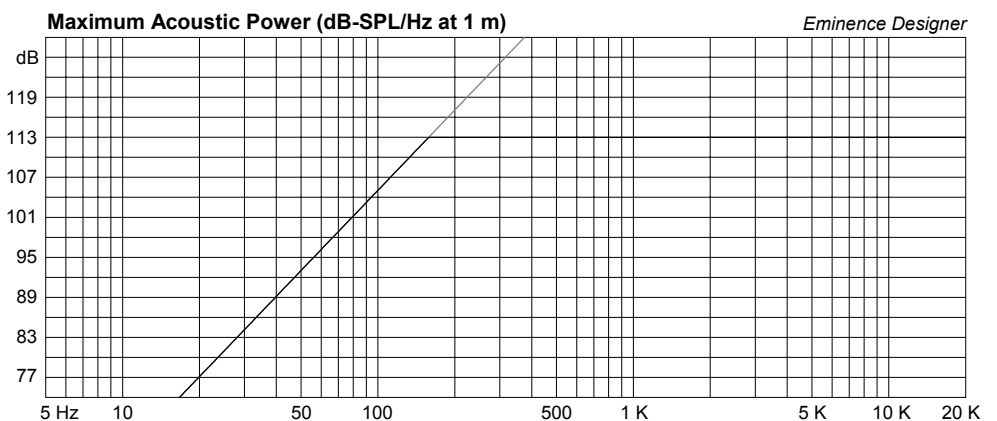
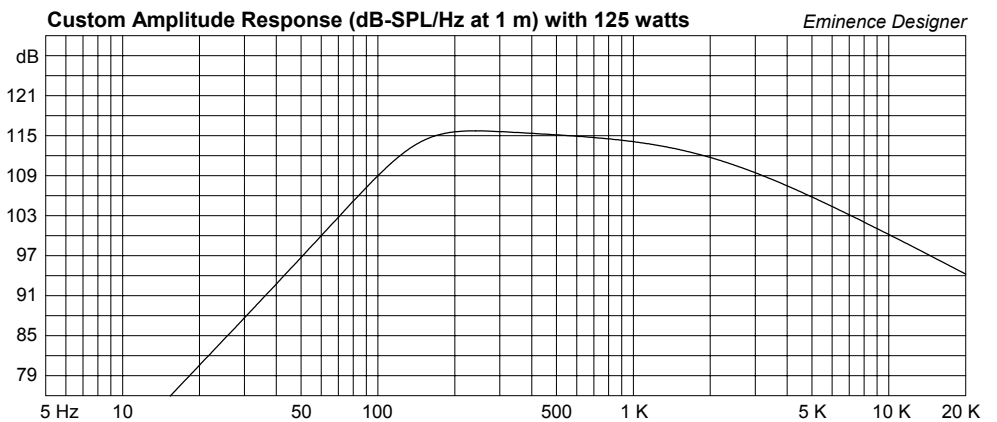
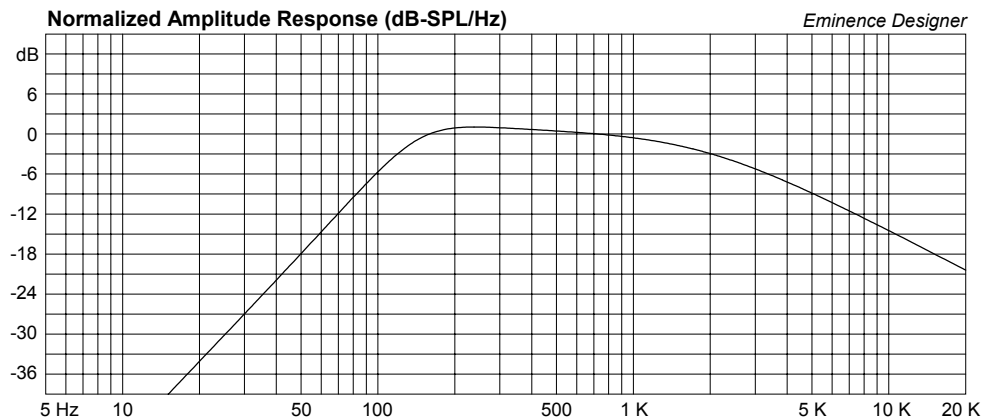
Qes = 0.68

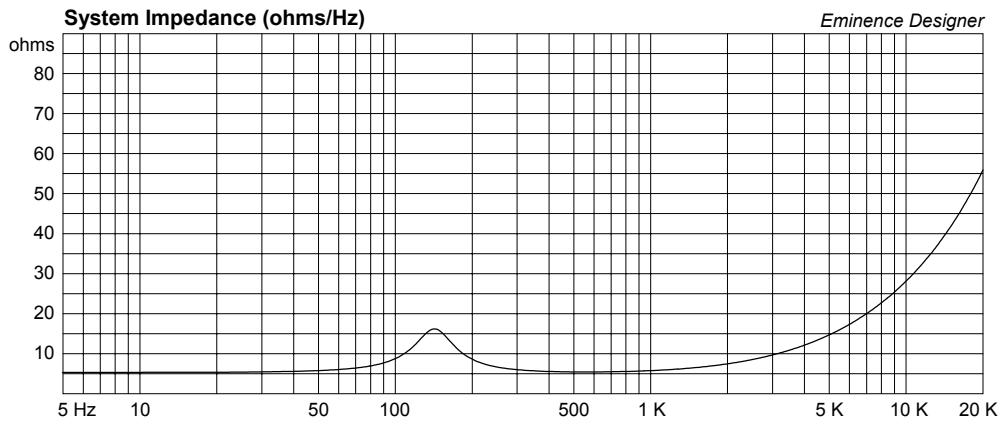
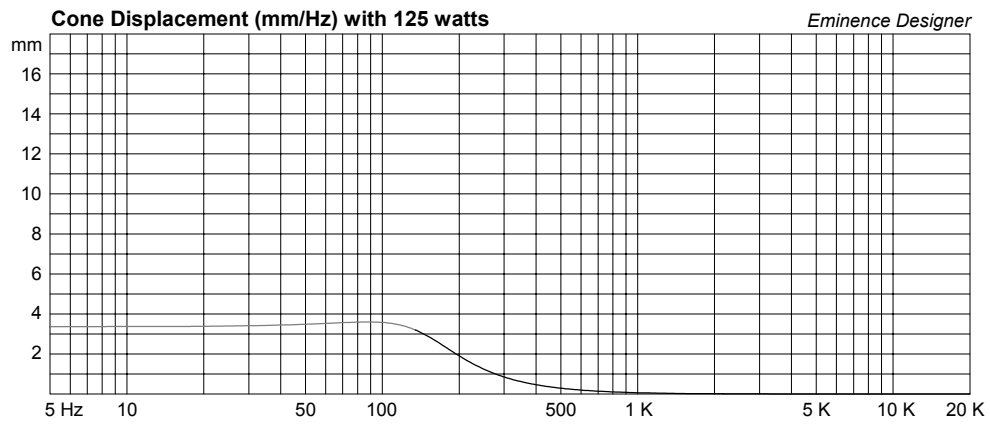
Re = 5.3 ohms

Le = 0.44 mH

Z = 8 ohms

Pe = 125 watts





Alpha8 Small Vented Mid/High Sat. Enclosure

By McJerry, Eminence Speaker LLC

75 Watt Displacement Limit. F3 of 71 Hz; best used with a High Pass filter set to 70 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.55 cu.ft

V(total) = 0.59 cu.ft

Fb = 71 Hz

QL = 7

F3 = 70.59 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 4.146 in

Driver Properties

--Description--

Name: Alpha-8

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 20 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 72.7 Hz

Qms = 4.6

Vas = 17.7 liters

Xmax = 3.2 mm

Sd = 210 sq.cm

Qes = 0.68

Re = 5.3 ohms

Le = 0.44 mH

Z = 8 ohms

Pe = 125 watts

