

$$R_{\text{add}} := 0.0 \cdot \Omega$$

Driver Thiele / Small Parameters : Lowther DX3 Average Driver Properties

$$f_d := 28.10 \text{ Hz}$$

$$V_{\text{ad}} := 558.69 \text{ liter}$$

Adjustments

$$R_e := 6.50 \cdot \Omega$$

$$Q_{\text{ed}} := 0.28$$

$$R_e := R_e + R_{\text{add}}$$

$$L_{\text{vc}} := 1.3 \cdot \text{mH}$$

$$Q_{\text{md}} := 7.10$$

$$Q_{\text{ed}} := Q_{\text{ed}} \cdot R_e \cdot (R_e - R_{\text{add}})^{-1}$$

$$B_l := 15.12 \frac{\text{newton}}{\text{amp}}$$

$$Q_{\text{td}} := \left(\frac{1}{Q_{\text{ed}}} + \frac{1}{Q_{\text{md}}} \right)^{-1}$$

$$S_d := 825.8 \text{ cm}^2$$

$$Q_{\text{td}} = 0.269$$

Enclosure Geometry Definition : Model of Internal Air Volume

$$L := 58.5 \text{ in}$$

(Internal Height)

$$z_{\text{driver}} := 19.5 \text{ in}$$

(Driver Internal Distance From Top < Height)

$$z_{\text{port}} := 56 \text{ in}$$

(Port Internal Distance From Top < Height)

$$S_0 := 17.5 \text{ in} \cdot 24.5 \text{ in}$$

(Internal Area of the Top End, $z = 0$)

$$S_L := 17.5 \text{ in} \cdot 24.5 \text{ in}$$

(Internal Area of the Bottom End, $z = L$)

$$\text{Density} := 0.25 \text{ lb} \cdot \text{ft}^{-3}$$

(Stuffing density : $0 \text{ lb/ft}^3 < D < 1 \text{ lb/ft}^3$)

$$r_{\text{port}} := 4.0 \text{ in}$$

(Inside Radius of the Port)

$$L_{\text{port}} := 2.0 \text{ in}$$

(Length of the Port)

$$\text{Power} := 1 \cdot \text{watt}$$

(Input Power) Applied Voltage Reference $\rightarrow R_{\text{ref}} := 8 \cdot \Omega$

End of Abbreviated User Input

