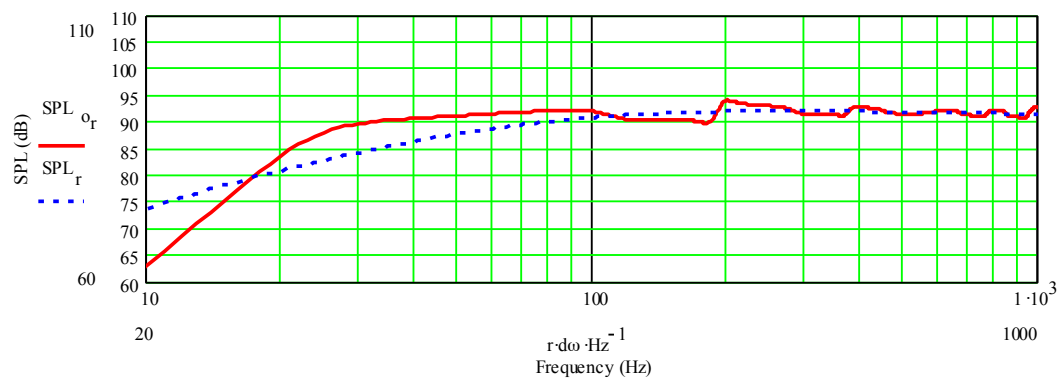


Hide Away SUB by Bjørn Johannesen

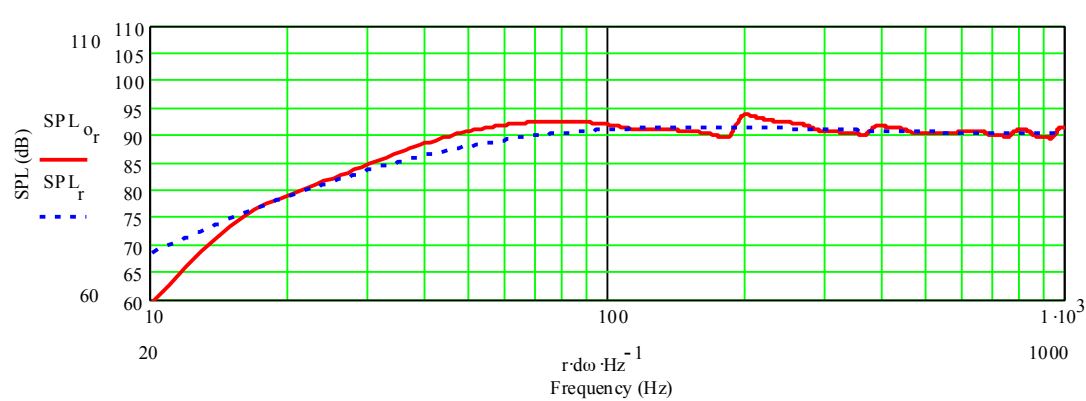
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SCANSPEAK 26W/4558T00



Peerless SLS 830668



SCANSPEAK 26W/4558T00

$$f_d := 21 \cdot \text{Hz}$$

$$V_{ad} := 94.9 \cdot \text{liter}$$

$$R_e := 2.6 \cdot \Omega$$

$$Q_{ed} := 0.33$$

$$L_{vc} := 0.83 \cdot \text{mH}$$

$$Q_{md} := 5.56$$

$$B1 := 10.5 \cdot \frac{\text{newton}}{\text{amp}}$$

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

$$S_d := 352 \cdot \text{cm}^2$$

$$Q_{td} = 0.312$$

Closed End of Transmission Line (Driver ---> Closed End)

Section Length

Initial Area

Final Area

Stuffing Density

$$L_{c_0} := 5.75 \cdot \text{in}$$

$$S_{c_{0,0}} := 2.9 \cdot S_d$$

$$S_{c_{0,1}} := 2.9 \cdot S_d$$

$$D_{c_0} := 0.3 \cdot \text{lb} \cdot \text{ft}^{-3}$$

Open End of Transmission Line (Driver ---> Open End)

Section Length

Initial Area

Final Area

Stuffing Density

$$L_{o_0} := 5.75 \cdot \text{in}$$

$$S_{o_{0,0}} := 2.9 \cdot S_d$$

$$S_{o_{0,1}} := 2.9 \cdot S_d$$

$$D_{o_0} := 0.3 \cdot \text{lb} \cdot \text{ft}^{-3}$$

$$L_{o_1} := 35 \cdot \text{in}$$

$$S_{o_{1,0}} := 0.85 \cdot S_d$$

$$S_{o_{1,1}} := 0.85 \cdot S_d$$

$$D_{o_1} := 0.3 \cdot \text{lb} \cdot \text{ft}^{-3}$$

$$L_{o_2} := 33 \cdot \text{in}$$

$$S_{o_{2,0}} := 0.334 \cdot S_d$$

$$S_{o_{2,1}} := 0.334 \cdot S_d$$

$$D_{o_2} := 0.0 \cdot \text{lb} \cdot \text{ft}^{-3}$$

Total Length of the Transmission Line

$$\sum_{i=0}^{n_{\text{closed}}} L_{c_i} + \sum_{i=0}^{n_{\text{open}}} L_{o_i} = 79.500 \cdot \text{in}$$

Total Amount of Stuffing

$$\left[\sum_{r=0}^{n_{\text{closed}}} \left(\frac{S_{c_{r,0}} + S_{c_{r,1}}}{2} \cdot L_{c_r} \cdot D_{c_r} \right) \right] + \left[\sum_{r=0}^{n_{\text{open}}} \left(\frac{S_{o_{r,0}} + S_{o_{r,1}}}{2} \cdot L_{o_r} \cdot D_{o_r} \right) \right] = 0.598 \cdot \text{lb}$$

