

NEEDED PARAMETERS FOR TL ENCLOSURE

T/S

F_s	28.3 Hz	RESONANT FREQUENCY
V_{as}	14.19 Ft ²	COMPLIANCE EQUIVALENT VOLUME
S_d	1.336 Ft ²	CONE SURFACE AREA

CONE MEASUREMENTS

DIAMETER **15.650** in

RADIUS **7.825** in

CIRCUMFERENCE **49.167** in

$r = 19.875975441288$ cm **7.825** in

$C = 124.88443685857$ cm **49.167** in

$A = 1241.1$ cm² **192.384** in² **1.336** ft² (S_d)

$r = 7.8251871816094$ in
 $C = 49.167101125419$ in
 $A = 192.37088474176$ in²

$r = 0.65209893180078$ ft
 $C = 4.0972584271182$ ft
 $A = 1.3359089218178$ ft²

CIRCLE FORMULAS

Radius and Diameter: $r = d/2$
Area of a circle: $A = \pi r^2 = \pi d^2/4$
Circumference of a circle: $C = 2\pi r = \pi d$

MOUNTING INFORMATION

- Overall Outside Diameter 18.11"
- Baffle Cutout Diameter 16.73"
- Depth 7.8"
- # Mounting Holes 8

1128.8 ft./sec. = Speed of Sound

39.886925795053 ft. = MY *FULL* WAY LENGTH

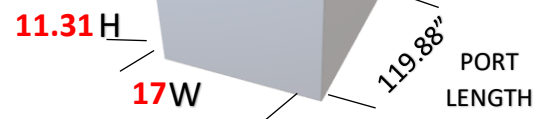
9.97173 ft. = MY 1/4 WAVE LENGTH

119.88076 in. = LINE/PORT LENGTH ***

38 X 19 X 30 (3 times w/ 11" 3 times)

192.384 in² = S_d (Cone Area) (H X W of cross section of PORT/TUBE)

PORT DIMENSIONS (119.88" X (AREA [H X W]) 17" X 11.31"



Speaker Displacement

Effective Cone Diameter = 15.65 in

Mounting Depth = 7.8 in

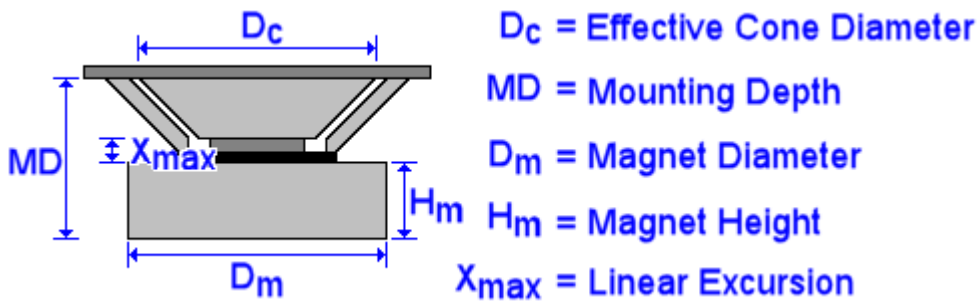
One-way, Linear Excursion (X_{\max}) = 0.236 in

Magnet Diameter = 7.48 in

Magnet Height = 0.787 in

Front Baffle Thickness = 1.0 in

Flush Mount = Yes



Dimensions

Driver Displacement = 0.17 ft³

“The line area should equal or exceed slightly the cone area of the driver used.”

“The line length should be 1/4 wavelength tuned to the resonant frequency of the chosen speaker **IN THE BOX VOLUME CREATED BY THE TOTAL T-LINE CROSS SECTIONAL AREA TIMES LENGTH**, and as if the box were a closed box.

64' Low C00 8.1 Hz – G1 49 Hz

32' Low C0 16.3 Hz – G2 98 Hz

16' Low C1 32.7 Hz – G2 98 Hz